Radio Times, July 18th, 1924.

THE DAY OF THE RADIO-CINEMA. BY J. E. BUCKROSE.

THE RADIO TIMES

THE OFFICIAL ORGAN OF THE B.B.C.

Vol. 4. No. 43. [Registered at the G.P.O. as a Newspaper.] EVERY FRIDAY. Two Pence.

OFFICIAL PROGRAMMES OF THE BRITISH BROADCASTING COMPANY.

For the Week Commencing
SUNDAY, JULY 20th.

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LIVERPOOL (Relay)
LEEDS—BRADFORD (Relay)

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RATES OF SUBSCRIPTION to "The Radio Times" (including postage): TWELVE MONTHS (*Foreign*), 15s. 6d.; TWELVE MONTHS (*British*), 13s. 6d.

Education and Broadcasting.

BY THE RT. HON. J. R. CLYNES, M.P.,
Lord Privy Seal and Leader of the House of Commons.

OF all the forces which have contributed to the advancement of mankind, it is safe to say that organized education is among the most important. Every age and civilization of the past has had its own manner of spreading information and opinion, and yet, when we consider how limited were the means of nations of the past in this respect, we cannot fail to realize that our own age is infinitely richer in opportunities for the exchange of ideas and knowledge than any which has gone before.

* * * *

The application of the power printing-press, and the use of mass-produced paper, have literally flooded the world during the last two hundred years with books, periodicals, and newspapers; the invention of the camera, the gramophone, the cinema-camera, and the telephone have been amongst the chief factors in bringing about entirely new developments in education. These developments have affected official education a little, though not in a very direct sense; in the future they will certainly hold an important place in the apparatus of official education. For the present, however, these new developments have not so much altered the official means of education as supplemented them.

* * * *

Whereas a person's education was at one time regarded as a thing complete when school-days were over, education nowadays continues throughout our lives in a very active and continuous sense. Education, which was once no more than a process of assimilating stock groups of facts, enduring examinations and then forgetting the stock groups of facts with the conscientiousness with which they were learnt, cannot justify itself longer on such terms. Life is all learning, and life is a continuous examination. Any development of education which tends to identify life and learning more closely is a development in the right direction.

To the short-sighted or the cynical, education might seem to have disadvantages, even dangers, and admittedly for all the healthy and constructive ideas which are so easily spread in the present century, fallacies, cheap sensations, and superficiality can be spread with equal ease. Those disadvantages must be borne, and my view is that time will tell, and that the standard of taste and discrimination will be inevitably improved as good work and sound opinions become more accessible, and though we can expect the intellectually poor to be always with us, we must look upon that as signifying a relative and not necessarily an absolute condition.

Mr. J. R. CLYNES.

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Broadcasting by wireless has introduced a development of education which has been compared in importance to the invention of writing. It is a method of communication: the value of what we communicate is dependent not on the machinery of communication, but upon the inspiration of the ideas which are to be communicated. Not many months ago wireless telephony was a dark and unknown matter to be ventured into only by the scientist and the expert. Broadcasting was spoken of as a dim possibility by daring visionaries of Wells-like imagination. It is now an accepted fact: a fact of domestic life. It is only in its infancy, and the developments which have occurred in the last twelve months are a hint that many possibilities still await fulfilment.

(*Continued overleaf in column 3.*)

The Voice and the Book.

A Friendly Argument.

OUR doctor dropped in the other day, ostensibly to inquire about my wife's pulse, but really to have an argument with me. Whenever this good man feels at all run down in the temper he does not fly for relief to bromide, or phosphorus, or any of the nasty drugs he prescribes for others. He just calls here and starts some controversial hare in my study. We chase it for half an hour, and just when he is getting the worst of the argument he suddenly remembers about my wife's pulse; then he climbs into his car and goes home cured. For this cure he charges me several half-crowns.

The Prejudiced Scientist.

This time it was about Wireless. The doctor, being a man of scientific training, is very careful of his facts when dealing with his own subject. But outside his own province there is no one so fixed in prejudice as your scientist, so wild in surmise, so pontifical in dogma, so chary of instances. He began by implying that we were both intelligent men, an assumption which I was too modest to deny, and then expressed surprise that I should waste my time upon a mere novelty only fit to amuse the children.

I lay low. I was leading him on. Perhaps until he reads this, as I intend that he shall do, he may think that he won these opening stages of the battle. He ended by comparing the advantages of reading and listening.

"If I want to learn anything," said the doctor, "I do not go to a lecture about it. I get the book and study it at my own pace. Of course, we had to attend lectures at college as a part of college discipline. But three parts of it was wasted time. Some of the professors assumed that we knew all that was in the books, and so talked over our heads, and the others merely gave us the text-book knowledge. A lecturer has to keep step with the slowest. Give me the book every time."

Hamlet on Shakespeare.

I am summarizing the discussion here. We did not really make long speeches like that. I pointed out to him that books had been in use for about five hundred years, but that there was still a place for the voice. The speech, the lecture, the sermon still flourish.

"I am myself a devotee of books," I said. "All the time you were dissecting *cadavers* I was reading books, and I still read them. I see no enmity between the Voice and the Book. On the contrary, the Book often sends me to the Voice, and the Voice often adds merit to the Book. What would we not give to hear the authentic voice of Shakespeare discussing the madness of Hamlet, or for that matter, of Hamlet questioning the sanity of Shakespeare? If you were told that at 10.15 on a certain night Robert Browning would explain the doctrine of '*Sordello*,' would you not listen?

A New Literary Form.

"There is a world of difference between the Broadcast Talk lasting ten or twelve minutes and those college lectures, one hour by the clock, five days a week. The college lecture is largely an anachronism, dating from the days when books were few and costly. Only remember that books are still costly. It is not easy for the average man of moderate purse to keep abreast of modern culture by means of books, unless he happen to live within reach of a first-class circulating library.

"But the Broadcast Talk is not a lecture. It is a thing standing by itself, a new literary form, if you like. I expect there will grow up an art of broadcast talking. Not all authorities are born talkers, and not all born talkers are first-rate authorities. Naturally these talks vary in merit: they will improve as time goes on.

A Man With a Message.

"Essentially, the Broadcast Talk consists of a Man with a Message. You do not see the man; you miss part of his personality—his look, his smile, his gestures. But a man's voice is a considerable part of his personality. I fancy I could have formed a clearer notion of Gladstone or Cecil Rhodes if I could have heard their voices. None of us has seen angels, but a few have heard their voices, and that was enough to make saints of them."

At this point the doctor thought it time to put up his heaviest barrage.

"Superficial!" said he.

That was my zero hour. Then my storm-troops went over the top.

"'Superficial,'" I remarked, "is a word which pedants employ to terrorize babes. When I talk about my health, or when you talk about Wireless, we both talk superficially. I dare say Dr. Branting would call you superficial if you were to talk about diabetes. You and I both have a tiny territory of knowledge which is our own. We call everybody who trespasses upon it 'superficial.' These are specialist days—and that is the very opposite to superficial. We have a public keenly interested in knowledge of every kind. There is a place for the research student delving deeply into some obscure corner of learning. But the more abstruse learning becomes, the greater the need of publicists or interpreters.

The Necessary Interpreter.

"When all the scholars have burrowed away out of sight into their own little warrens of knowledge, learning will come to an end. They will not be able to understand one another, or, when they have found anything, to explain what they have found. That is why the interpreter is so necessary. It is the function of interpretation that the Broadcast Talk performs."

It was here or hereabout that the doctor remembered what he had come for. He left me apparently quite unconvinced. But it is worth mentioning that he came back after feeling my wife's pulse to say that there were several things about health that he thought the public ought to know. He thought he could give some valuable advice in a very few minutes. He was hinting, not obscurely, that he was a Man with a Message, and that all he wanted was a fine high pulpit and a fine large congregation.

By this time he has probably got his Wireless installed.

J.C.S.

RADIO FOR MARINE SURVEYING.

A NEW method of marine surveying, using both radio and sound waves, has been developed and is now being used on the Oregon coast. It may be used even in a dense fog and is as accurate as any of the usual methods of sight surveys at sea. The method depends (says a writer in *Science*) on the velocity of sound through the sea water, which, being known, enables the operator on shipboard to fix his distance from two or more known positions on shore.

A simple calculation then permits him to work out his own position. In this method a bomb fired under water near a vessel sends out a sound wave which travels till it reaches an under-water telephone near and connected by cable with a shore radio station. The sound itself by means of suitable apparatus sends back a radio signal to the ship in such a way that, while there is a delay in the return of the signal, this delay can be accurately measured and the result is the same as if there were no delay whatever.

Education and Broadcasting.

(*Continued from the previous page.*)

In what manner broadcasting can be expected to take its place along with the cinema and other modern devices in the amplification of new means of teaching children in the schools, it is not for me here to prophesy; but I feel that such developments are bound to come. As far as the teaching of languages alone is concerned, I am sure much can be done. The ease with which the highly specialised knowledge of experts can be diffused—the university being, as it were, taken into the home and the board-school—presents many interesting possibilities. I do not say that this method of teaching by an unseen teacher can suit every educational requirement, or that it is not bound by many limitations. A suitable educational technique will need to be evolved so that the fullest value may be obtained from this new method, and in the meantime the effects of broadcasting through adult "spare-time" education are certain to be very potent.

* * * *

One of the developments of the last few generations is that, for better or for worse, our interests and outlooks are gregarious. The development of factory systems, and the breaking down of provincialisms through increased locomotion and trade, have widened the areas of community interests. The growth of the modern Press has helped to bring about this widening of community interest, and the educational power of the Press (again, for better or for worse) has been a very strong influence. The peoples of nations know much more about each other than they did fifty years ago as a result of these influences, and their outlook must inevitably broaden as time goes on. It is unwise to expect too rapid progress against national prejudice and illusion, but progress has been and will be made. Broadcasting is another such force, coming with appropriateness into a gregarious, de-provincialized world, and certain to accelerate the widening of common interest which is one of the leading characteristics of our time.

* * * *

I say with all seriousness that those who organize the programmes of music, lectures, and other items broadcast by the British Broadcasting Company hold in their hands a tremendous responsibility. Up to the present, they have shown (difficult as their task of "pleasing everybody" is) a worthiness to bear that responsibility, and I hope they will work always under the inspiration of the will to cultivate public taste and widen the intellectual equipment of the people.

* * * *

It is especially to the poorer people that broadcasting offers such rich fields of new intellectual development: books, plays and music which before were beyond the reach of the workers are now brought nearer, and it is because I know what that means to millions of workers that I repeat the hope that the responsibility held in trust by the broadcasting authorities will be reverently borne and wisely acted on.

J. R. Clynes.

THE Poet Laureate, Dr. Robert Bridges, came across a school in America which advocated an American as opposed to an English language. This may have prompted the Laureate to make the admirable statement: "All, whatever dialect they speak at home, should hear the language of our great literature in wireless broadcasting."

He called wireless a "paramount and imperial means of national culture."

Official News and Views.

GOSSIP ABOUT BROADCASTING.

The High-Power Station.

IT is necessary to emphasize the fact that the transmissions from the high-power station at Chelmsford are purely of an experimental nature, and listeners must not expect at the present time a continuation of a regular service. The experiments are being conducted to determine three main points:—

What sort of range can be expected from a station of this kind. Whether the high power and the long wave-length may combine to produce interference with existing commercial services of so serious a nature as to constitute a real argument against the continuation of the scheme.

Whether the signals emanating from the high-power station will be interfered with by any existing commercial services—whether, in fact, the wave-length of 1,600 metres is a suitable one.

Whether the harmonics of the high-power station will interfere with the existing broadcast service has also to be determined.

Broadcast Licences: Important Announcement.

The Postmaster-General announces that the new and simple type of wireless receiving licence is now on sale at post offices at a fee of 10s. This licence contains no conditions concerning the marking of apparatus, and it covers the use of any receiving set, whether purchased complete or made from parts, provided that the set, or parts, are of British manufacture.

The licence will be issued in place of existing broadcast, constructor's, and interim licences, as they fall due for renewal, and will cover any set which the holder of such a licence is entitled to use. Now that the licence fee for home-made sets has been reduced and the conditions simplified, the Postmaster-General feels confident that there will be no attempt on the part of the listening public to avoid payment for broadcast service. He thinks it right, however, to call attention to the fact that heavy penalties are prescribed by the Wireless Telegraphy Act, 1904, on conviction of the offence of establishing a wireless station without a licence.

To Owners of Indoor Aerials.

The above announcement should be particularly noted by those possessors of indoor aerials who, we are given to understand, imagine that they need not obtain a licence as there is no visible evidence from the outside of the building of their possessing a set.

The Wireless Man Hunt.

The Wireless Man Hunt arranged on a national scale will take place on Saturday, July 26th, when each station, main and relay, will broadcast individually at 6.45 p.m. a story drawing attention to the disappearance by motor of at least one aunt or uncle. This will be followed by a description of the appearance of the person in question, and the car with its identification number. The car and its occupants will then start promptly at 7 p.m., though not necessarily from the station, on a drive through the area served by the station, and an award of £5 will be given to the person who subsequently sends to the station the most detailed observation upon the car and its occupant, or occupants.

The tour will start at 7 p.m. and continue until 9.30. London Station last summer organized a similar hunt with much success, and the results of this national effort are awaited with interest.

Mr. Filson Young Replies.

Mr. Filson Young has asked us to thank the many correspondents who have written to him regarding his recent article in *The Radio Times*, and offering advice and help. He regrets that he cannot reply to them individually. "The letters," he says, "for the most part are from amateurs who claim to have perfect reproduction from some form or other of apparatus designed or constructed by themselves; but it is pretty clear that different people mean different things by the word 'perfect.' One or two correspondents, who have made a study of loud speakers, send valuable and useful information; and it is possible that the perfect transformer and loud speaker are nearer than some of us think."

Of Interest To Cricketers.

Cricket enthusiasts will have an opportunity on August 2nd of hearing Mr. J. Sharp, the captain of the Lancashire Cricket Club, speak at the Manchester Station on Lancashire cricket, with special reference to the "Wars of the Roses," this being the occasion of the annual Bank Holiday match with Yorkshire at Old Trafford. This year, too, is the jubilee of the County Club.

It is hoped that Mr. Sharp will be supported by the famous veteran, Mr. J. T. Tyldesley, and Mr. Geoffrey Wilson, the captain of the Yorkshire Cricket Club.

British Music Renaissance.

The first of the series of performances of what are to be called British Music Renaissance programmes will be given on July 21st at the Cardiff Station. It will be devoted to the work of Frederick Nicholls, about whom Mr. Ernest Newman, the distinguished musical critic, has written: "When I think of Mr. Nicholls' songs I feel that he, and he alone, has taken our best poetry within his hands and compressed from it its finest essence and fragrance."

BROADCASTING.

Mr. Humbert Wolfe's Poems.

MR. HUMBERT WOLFE.

Mr. Humbert Wolfe, C.B.E., who is to read some of his poems from the London Station on July 21st, is the author of three books of verse, "London Sonnets," "Shylock Reasons With Mr. Chesterton" and "Kensington Gardens." He was also the author of a book of short stories called "Circular Saws." He has in addition contributed articles to the "Encyclopædia Britannica" and written authoritatively on Labour Supply and Regulation. For some years his poems have appeared regularly in reviews and magazines, and many of them are to be found in anthologies.

A Debussy Programme.

After the poetry reading by Mr. Wolfe, the London programme will be devoted to the music of Debussy. The artists will be Miss Kate Winter, soprano, who will sing some of the composer's most charming songs, Miss Kathleen Long, pianist, and the Snow String Quartette, which will play three movements from "The String Quartette in C Minor."

Astonishing Orchestral Instruments.

"Hyperprism," for small orchestra and percussion instruments, by Edgar Varese, a French composer, who has lived for some time in America, will be broadcast from the London Station on Wednesday, July 30th, with Mr. Eugene Goossens conducting. The work is scored for no stringed instruments. It has never before been performed in this country, and listeners will have an opportunity of hearing an orchestra containing instruments of the following variety:—Flute, alternating with piccolo, E Flat clarionet, three French horns, two trumpets, one tenor trombone, one bass trombone, one side drum, one Indian drum, one large bass drum, tambourine, large crash cymbal, two other cymbals, a large tam-tam, a triangle, anvil and slapstick, two Chinese blocks, a lion's roar, two rattles, sleigh bells and syrens.

Bournemouth's Symphony Programme.

A Symphony programme will be given by the Bournemouth Station on Friday, July 25th. The Wireless Augmented Orchestra will be conducted on this evening by Mr. L. Stanton Jefferies, the Director of Music to the Company. Songs will be contributed by Vivienne Chatterton, and Reginald Remson, age 16, will play pianoforte solos.

The following evening the same station will give an interesting programme, including the song cycle "A Lover in Damascus," by Amy Woodforde-Finden. Distinguished artists will take part in this concert, including Nora Delmarr, soprano, Douglas Sharpington, baritone, and John Perry, tenor.

Staff Changes.

Mr. C. K. Parsons, assistant station director at Newcastle, has been transferred to Bournemouth Station to replace Mr. L. B. Page, who will be taking charge at Hull.

The Scene of Pilgrim's Progress.

A Talk from London, by H. P. Kennedy Skipton, F.R.Hist.Soc.

THERE is no more topical subject in summer-time than a pleasant walk in a fine bit of English country. And the pleasantest such walk ever recorded—a walk without a hint of bad weather—is that of which we have all read in "The Pilgrim's Progress," the finest open-air book in the world. But few who read it recognise that it is drawn from a well-known neighbourhood, and was based upon real happenings in real places, places within easy reach of every enterprising Londoner.

A Striking Clue

Now, many years ago, a Colonel James suggested that a certain patch of country provided a key to the locality which Bunyan described; it was my good fortune to hit upon a striking clue which has carried Colonel James's theory considerably further. I have traversed the scene (as I believe) of Christian's pilgrimage from the City of Destruction to the Delectable Mountains many times, and almost always have found some fresh suggestions to confirm this theory.

I find that where Bunyan talks of north and south, left and right, the route which I am about to describe corresponds at every point. I find that Doubting (or Dowding) Castle still exists, and is marked upon the Ordnance Map; that my Hill Difficulty exactly fits into Bunyan's description of it; and most important, perhaps, of all, that there is on this route a Valley with precisely the features of Bunyan's Valley of the Shadow of Death. There was also a Vanity Fair, a Slough of Despond, and strong presumption of a real Wicket Gate and a Calvary hard by. Also, there is a Castle from which the bowmen of Beelzebub could annoy pilgrims emerging from the Slough of Despond and making for the Wicket Gate.

"The City of Destruction."

To be brief, then, I believe that the City of Destruction stood for Guildford; Shalford Meadows supplied the Slough of Despond; the Wicket Gate stood where there is still a gate at the entrance to the property which bears the name of Chantries, and it was overlooked by Guildford Castle; the Hill Difficulty is St. Martha's Hill, still approached through the gate aforesaid; that the Valley of the Shadow was the Valley of the Tillingbourne from Albury to Abinger, the seat of the ancient iron industry; Vanity Fair was mainly drawn from Dorking and other fairs along the route; the Silver Mines stood for the chalk pit, then newly carved out by speculators from the scarp of the North Downs; Doubting Castle occupied the site which still bears that name on Walton Heath; the Delectable Mountains and Mount Clear correspond with the range that culminates in Leith Hill—on whose northern slops you will still find Bunyan's Byway to Hell, now known as Friday Street.

Why Guildford?

There, I think, he broke off and strayed into fancies suggested by the Ouse at Bedford, over which stood the prison in which he wrote his allegory, and doubtless also with visions of the familiar scenery along its banks.

You will ask: But why Guildford? What had Bunyan to do with Guildford, so far from his home at Bedford? Well, Bunyan wandered far and wide on his preaching tours, and, until recently, there was a house in Guildford on Quarry Hill and another at Shalford close by, which tradition connected with him. There is still in Guildford an ancient and very long-lived Nonconformist family, which cherishes a tradition, handed down through a few long lives, that one of their number, when a child, was lifted up to tie John Bunyan's neckcloth in order that she might say she had been so honoured. There is nothing at all improbable in his association with Guildford.

A much more pertinent question is: What made this fiery Puritan think of a mediæval pilgrimage as the framework of his story? And whence did he get his ideas of a pilgrimage at all? There had never been such a thing as a pilgrim route through his native county, and it held no local tradition to guide him. My reply, first suggested by Colonel James, who, I think, is unquestionably right, is that he learned it by traversing the ancient prehistoric track used for some three hundred years previous to the Reformation by pilgrims to Becket's shrine at Canterbury. The track is still known as the Pilgrims' Way, and it passed by Guildford. This track he followed exactly until he turned off after escaping from Doubting Castle.

Memories of a Golden Age.

Memories and traditions then little more than a century old, must have been current in Guildford and all along the route—memories of a golden age when the steady stream of pilgrims that used the Way brought untold wealth and custom into the land.

The Pilgrims' Way crosses the River Wey by a ferry below St. Catherine's Chapel, just outside the town, and lands the pilgrim in Shalford Meadows, where there was once a made path with steps to enable the pilgrims to cross the swamp in safety. Having emerged thence, Christian arrives at the Wicket Gate, the site now marked by a wooden gate leading on to the estate called Chantries, once, no doubt, monastic property. It is noted (correctly, according to my theory) that at this point the City of Destruction lay to the left of the Way, also that "it was possessed by a very idle, ill-conditioned sort of people." So was the Guildford of that day, as there is evidence to show.

A Monastic Gatehouse.

But Bunyan's Wicket Gate was not a mere field gate. From the Second Part of the allegory, it is clear that it was a gateway with rooms occupied by a porter, and with a gallery over the entrance, where trumpeters could come out and sound fanfares—a monastic gatehouse, in fact, such as still survives at St. Albans and Worksop, and in more ruinous condition at Kenilworth. And as you pass through the wicket, there used to stand almost invariably on a mound or stepped platform a Calvary—a Cross, that is, with a Figure upon it.

It is quite possible that both Wicket Gate and Calvary were still there in Bunyan's time—the Calvary, perhaps, broken and prostrate. We hear of such survivals for a long time after destructive agencies had been at work in the land. And, as I have already noted, both the Wicket Gate and the approach to it were within range of such annoyance as Bunyan describes from the sharpshooters of Beelzebub's—that is Guildford—Castle.

"Hill Difficulty."

You climb thence up St. Martha's Hill—Bunyan's Hill Difficulty—through Chantries Wood. Writing of this same hill, Mr. Hilaire Belloc observes—though with no reference to the Pilgrim's Progress—that the pilgrim would be instructed:—

> You must, of ritual, climb that isolated hill which you see against the sky. The spirits haunted it and were banished by the Faith, and they say that martyrs died there. . . . From step to step the pilgrims were compelled to take the oldest of paths . . . and that good habit of the Faith, whereby it refuses to break with any

(*Continued at the foot of the next column.*)

B.B.C. PERSONALITIES.

D. Millar Craig.

Scotland's Assistant Controller.

MR. D. MILLAR CRAIG.

MR. D. MILLAR CRAIG is a man whose quiet self-assurance and manner inspire instinctive confidence. He has the air of one who feels friendly disposed, but is a little diffident of displaying his feelings. In other words, he is a Scotchman.

Mr. Millar Craig is officially described as Assistant Controller (Scotland). In this administrative post he is responsible for the conduct and extension of the company's work throughout Scotland. He has had an interesting career which well fits him for this particular task. As a boy, he determined to take up music as a profession, an ambition which was for some time very properly damped by those in authority over him. In fact, he remembers his headmaster on one occasion telling his father that he was "too clear-headed to waste on music." So it was wisely insisted that he should have a sound school and university training before following his own inclinations, and he was brought up on the classics as if destined for a scholastic career. However, in the end he attained his desire, and gained the Diploma of the Royal Conservatorium of Leipsig.

Thereafter, until the War, Mr. Millar Craig pursued his musical activities, visiting all the great public schools in the east of Scotland in the course of his work.

Music and Brains.

His administrative capacities were not properly discovered until war broke out, when his activities and the increasingly responsible undertakings which fell to his lot proved that musical ability can go hand-in-hand with mental capabilities of no mean order.

When finally released from war service, Mr. Millar Craig took up temporary work under the Government, at one time being responsible for all the personnel questions of a staff numbering over 2,000 men and women. He was also responsible for all questions of accommodation and equipment concerning some 160 offices throughout Scotland. It may fairly be assumed, therefore, that he knows his Scotchman, and brings to his present task a splendid equipment of practical experience, tact and efficiency.

(*Continued from the previous column.*)

chain of human development, marked and retained for history the oldest things.

Both Christian and Mr. Greatheart lay stress on the fact that the ascent of the Hill was easier than the descent, and so it is to-day.

I pass now to the Valley of the Shadow, which corresponds closely with the ancient iron-smelting industry, the black country that occupied for many centuries the valley of the Tillingbourne. Its one abiding relic is the chain of "hammer-ponds" formed by damming up the stream to supply water-power to the great forges and hammers required for the furnaces and the work. Contemporary descriptions of the process account in detail for the weird experiences of Christian and the other pilgrims in the Valley, even to the pitfalls in the roadway, of which other travellers (Daniel Defoe among them) made grievous complaints.

Though the scene of Bunyan's Vanity Fair is probably Dorking, the thing itself is, no doubt, compounded of the survivals, then still numerous, of the religious fairs along the old Pilgrims' Way, some of which were continued until our own times.

Listeners' Letters.

[All letters to the Editor to be acknowledged must bear the name and address of the sender. Anonymous communications are not considered.]

Broadcasting from Large Halls.

DEAR SIR,—In my opinion, Mr. Robert Keable, in his "Wireless Wanderings," has got badly off the track in his reference to the Wembley Empire Service. He gives it as his opinion that it was not a suitable event for broadcasting. Personally, I myself and my friends, without exception, were immensely impressed by it.

It is curious that Mr. Keable expresses a preference for small choirs, singing from the studio, for in my experience concerts given under those conditions are not satisfactory. The music comes through "blurred," which I take it is due to the small closed space in which the choir is singing. That such is the case is, I think, proved by the fact that opera relaid from the Opera House and other concerts relaid from large halls are very much more satisfactory.

Faithfully yours, A. H. COPEMAN, M.D.

Hove.

Hints for Listeners.

DEAR SIR,—With reference to Mr. Filson Young's article in *The Radio Times*, I should like to point out that he has been badly advised. A two-valve set (detector and low-frequency transformer coupled) with reaction, using preferably two D.E.R. valves and a loud speaker, should give excellent and undistorted results for local broadcasting, even though a transformer be used. Should more volume be required, the one valve and a microphone amplifier may be used; while for open-air demonstrations, which are required to be heard clearly two or three hundred feet away, the two valves and amplifier are required.

The first arrangement should bring in all stations on headphones; the second, one or two of the nearer stations on the loud speaker, and the last, all stations on the loud speaker (after dusk). The running cost of such a set would be negligible, except for the H.T. battery (10s.), about 60 or 80 V., which should last four or five months.

Yours faithfully, P. S. B. W.

Kew.

How to Apply for a Licence.

DEAR SIR,—I shall be obliged if you will answer the following question: I am resident five miles from the nearest main post office. I applied at my local sub-post office for a licence, but was told that I must go to the main post office, which is five miles distant. As it is a long way out of my way, I did not go.

My aerial has now been erected for nine months and I have not been asked to show my licence.

As I would like to pay for the privilege of listening—how am I to get a licence, and what is my position?

Yours faithfully, G. D. S.

Moorside.

[You should ask your sub-post office for a form of application for a licence, and send it in, together with the licence fee, to the main office, who will issue the licence. There are heavy penalties under the Wireless Telegraphy Act, 1904, for establishing a station without a licence.]

Services in a Smugglers' Inn.

DEAR SIR,—I have read with much interest the paragraph in *The Radio Times* entitled "Hymns in an Inn."

In this old Smugglers' Inn in Alfriston we make a regular feature of the Sunday evening service, from a loud speaker, which is greatly enjoyed and looked forward to by the villagers.

Yours faithfully,

Market Cross Hotel, JOHN D. BUNKLE.
Alfriston.

PEOPLE IN THE PROGRAMMES

A Great American Lawyer.

MR. C. E. HUGHES.

ON Monday, July 21st, at the Pilgrims' Dinner, at the Hotel Victoria, to honour Mr. C. E. Hughes, Secretary of State to the United States of America, the speeches of the Prince of Wales, the Duke of Connaught and of Mr. Hughes himself will be broadcast. Mr. Hughes has been described as "the Kitchener of American legal and political life," on account of his sphinx-like character and integrity of purpose.

The son of a Baptist preacher, it was intended that he should follow in his father's footsteps; but when quite a boy he was ambitious of becoming a college professor. At Brown University he graduated with high honours, and later he secured a professorship in Delaware Academy, at Delhi, N.Y.

His Great Chance.

IN 1884 Mr. Hughes was called to the American Bar. His great chance came when, in 1905, he was appointed as senior counsel of the committee to investigate the gas and electric-lighting business of New York.

The result of his labours was the complete exposure of methods whereby the people were being grossly misled.

Mr. Hughes is a firm believer in "the simple life," and his favourite hobbies are walking, golf and mountaineering.

A Granville Bantock Recital.

PROFESSOR GRANVILLE BANTOCK.

ON July 22nd, Professor Granville Bantock is to give a recital of some of his own music at Birmingham. Professor Bantock is Professor of Music at the University of Birmingham, and Principal of the Birmingham and Midland Institute School of Music. He was born in London on August 7th, 1868, and studied at the Royal Academy of Music, winning the Macfarren Scholarship after his first term. His early experience comprised musical journalism, conducting musical comedy on a world tour, and a tour in the Provinces with Stanford's "Shamus O'Brien."

Many Compositions.

IN 1897 Professor Bantock became Musical Director of the Tower, New Brighton, and during his three years of office introduced many works by English composers. In 1900 he went to Birmingham as principal of the Midland Institute School of Music, and later was appointed to the Chair of Music at the University. His best-known compositions are a setting of "Omar Khayyam" for soli, chorus, and orchestra; "The Great God Pan"; and several tone poems, including "Fifine" and "Dante and Beatrice." His contributions to choral music include a choral symphony for twelve voice parts, "Vanity of Vanities," which was first performed in London in April, 1923, by the Wolverhampton Musical Society, under Mr. Joseph Lewis, the Musical Director of the Birmingham Station.

A New Zealand Soprano.

MISS NORA DELMARR.

A BUSY artist this week will be Miss Nora Delmarr, for she is to sing at Aberdeen, Glasgow, Newcastle, and Manchester. "I am a native of New Zealand, where my father was a Civil Servant," said Miss Delmarr to me the other day. "I had an unusual voice as a child, and my parents sent me at the age of eighteen to study singing on the Continent.

Later, I made my debut in Italian opera in Naples in the *Ballo in Maschera* and *Cavalleria Rusticana*. But my musical training and tastes led me rather to Wagnerian opera, which I went to study in Vienna. I sang the *rôles* of Elsa, Elizabeth, and Sieglinde there.

Her Narrow Escape.

"THEN the war broke out," continued Miss Delmarr, "and I had a narrow escape from internment, getting across the frontier just in time. I was engaged on war-work, and for some years I sang only for the Lena Ashwell concert parties in France. (I spent one night in Calais Camp detached from my party during a bombing raid, huddled with the Chinese coolies in a dugout!)

"After the war I began my professional singing in England with a 'Promenade' season, where I had five engagements. I have kept up my opera by singing Isolda, Venus, and Elsa at the Old Vic last season, and I shall be singing there again next season in the Wagnerian operas."

A Fine English Tenor.

THERE are few more popular tenors than Mr. Walter Hyde, who is singing at Aberdeen and Newcastle this week. A native of Birmingham, he first studied with George Arnold Breeden, in that city, and later won a scholarship at the Royal College of Music. Whilst at the College, he sang in several operas, including *The Flying Dutchman*, *The Magic Flute*, and *Much Ado About Nothing* (Stanford).

On leaving, he obtained an engagement in light opera, and sang both in London and the provinces in a very charming little opera called *My Lady Molly*, the music of which is by Sidney Jones.

Shortly after this, Mr. Hyde made his first appearance at Covent Garden in the first performance of *The Ring* in English, under Dr. Hans Richter, in conjunction with Mr. Percy Pitt. Since then he has appeared at the Metropolitan Opera, New York, Chicago, Boston, etc., also at the Royal Opera, Buda Pesth.

Famous When a Boy.

MR. HAROLD WILLIAMS, baritone, who will sing at Birmingham on July 22nd, and at Glasgow on July 23rd, was born in Sydney, Australia, and achieved early fame as a boy soprano. Dame Clara Butt, while on one of her Australian tours, evinced an interest in him, and suggested his leaving for England. His voice broke later, and after some years of inactivity, he began further study, gradually gaining a prominent position in the Australian musical world.

Joining the Army, Mr. Williams spent two and a half years in France, coming to England after the Armistice, and here he took advantage of his time to improve his musical training, with the result that he was persuaded indefinitely to postpone his return to Australia.

WIRELESS PROGRAMME—SUNDAY (July 20th.)

The letters "S.B." printed in Italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

LONDON.

3.0.—Time Signal from Big Ben.

Band Programme
S.B. to Newcastle,
by
THE BAND OF H.M. ROYAL AIR FORCE.
By Permission of the Air Council.
Director of Music,
Flight-Lieut. J. R. AMERS.
EDITH LAKE (Solo Violoncello).
HARRY HOPEWELL (Baritone).
The Band.
Overture, "Flotte Bursche".....*Suppé* (1)
Suite, "At the King's Court".....*Swan*
"Woodland Pictures" ..... *Percy Fletcher*
Violoncello Soli.
Largo and Corrente ..... *Eccles*
Baritone Songs.
"In the Silver Moonbeams" *Cyril Scott* (4)
"On Wings of Song".....*Mendelssohn* (1)
"Toreador's Song!" ("Carmen").....*Bizet*
The Band.
Incidental Music to "Henry VIII."*Sullivan*
Prelude, "Manfred" .....*Schumann*
Song, "Good Night".....*Gow*
Valse Lente and Pizzicato from Ballet "Sylvia" ..... *Delibes*
Violoncello Soli.
"Ave Maria" ..... *Gounod*
"Deuxième Arietto Oubliée" .....*Debussy*
"Capriccio".....*Haydn-Van Lier*
Baritone Songs.
"Vittoria! Vittoria!" ..... *Carissimi* (1)
"Dedication" ..... *Robert Franz*
"To Anthea" ..... *Hatton*
The Band.
Introduction to 3rd Act and Bridal Chorus, "Lohengrin" ..... *Wagner*
Euphonium Solo, "Nazareth".....*Gounod*
(Soloist, Musician J. WILSON.)
"Novelette" .....*Glazounov*
Suite No. 2, "L'Arlesienne".....*Bizet*
Announcer: J. S. Dodgson.

5.0–5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*

6.30.—Hymn, "O, for a Thousand Tongues to Sing" (A. and M. 522).
Address, the Rev. JOHN A. MAYO, Rector of Whitechapel.
Hymn, "Love Divine all Loves Excelling" (A. and M. 520).
"A Hymn of the Homeland .. *Sullivan* (3)
(Sung by MALE VOICE OCTETTE.)

9.0. DE GROOT

THE PICCADILLY ORCHESTRA.
Relayed from the Piccadilly Hotel, London.

10.0.—TIME SIGNAL FROM GREENWICH, GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.* Local News.

10.15.—De Groot and the Piccadilly Orchestra.

10.30.—Close down.

Announcer: R. F. Palmer.

BIRMINGHAM.

2.0–5.0. THE STATION MILITARY BAND.
March, "The City Police"..... *Henson*
Overture, "Les Dragons de Villars" *Maillart*
Selection, "Dinorah" ..... *Meyerbeer*
ELSIE SUDDABY (Soprano).
"If Thou Art Near".....*Bach*
"My Heart Ever Faithful"..... *Bach*
Band.
Serenade, "Beneath Thy Window" *Le Thiere*
Caprice, "Les Chanteurs Hongroises" *Michiels*
"Andante Religioso" ..... *Thome*
Elsie Suddaby.
"God Is My Shepherd".....*Dvorak*
"Let the Bright Seraphim"...*Handel* (11)
Band.
Fantasia, "A Voyage on a Troopship" *Moller*
Morceau, "Babillage" .....*Gibet*
Elsie Suddaby.
"The Fields are Full".....*Gibbs*
"The Chapel On the Hill"... *Stanford* (14)
"Orpheus With His Lute"...*Sullivan* (1)
"The Hostel" ..... *Bairstow* (14)
Band.
Selection, "Eugene Onegin" *Tchaikovsky* (1)
March, "War March of the Priests" *Mendelssohn*
Announcer: C. J. Paterson.

5.0–5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*

8.30. STATION REPERTORY CHOIR.
Hymn, "Jesu, Meek and Gentle" (A. and M. 194).
The Rev. F. LEWIS BLOOD, St. Stephen's Church, Birmingham: Religious Address.
Choir.
Hymn, "Our Blest Redeemer ere He Breathed (A. and M. 207).

9.0. THE STATION SYMPHONY ORCHESTRA.
Conducted by JOSEPH LEWIS.
NIGEL DALLAWAY (Solo Pianoforte).
Orchestra.
Overture, "Birthday" *London Ronald* (5)
Nigel Dallaway.
"Liebestraume" ..... *Liszt*
Orchestra.
Symphony No. 6 in B Minor, Op. 74, "The Pathétique" ..... *Tchaikovsky*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.

10.20.—Close down.

Announcer: Percy Edgar.

BOURNEMOUTH.

MARIE GOOSSENS (Solo Harp).
GLADYS JAMES (Contralto).
ARTHUR MARSTON (Solo Organ).
CHARLES L. LEESON (Harmonium).
THE WIRELESS STRING ORCHESTRA.
Conductor,
Capt. W. A. FEATHERSTONE.

Chamber Music.

3.0. Orchestra.
Serenade in F Major, Op. 24. *Julius Klengel*

3.15. Organ Solo.
Relayed from Bascombe Arcade.
"Festal Toccata" ..... *A. Bayton*

3.30. Gladys James.
"None But the Weary Heart" *Tchaikovsky*
"The Lament of Isis" ..... *Bantock*

3.35. Harp and Orchestra.
"Danse Sacrée" }
"Danse Profane" } ..... *Debussy*

3.50. Gladys James.
"In Summertime on Bredon" ....*G. Peel*
"Down Here" ..... *May Brahe* (5)

4.0. Organ Soli.
"Evening Song" .....*Bairstow*
"Scherzando" .....*Wider*
"Wedding Hymn" .....*Salome*

4.15 Harp and Orchestra.
"Liebesnovelle," Op. 14 (An Idyll in Four Themes) .....*Arnold Krug*

4.35. Gladys James.
"My Dear Soul" .....*Sanderson* (1)

4.40. Organ Solo.
Finale from Sonata in F Sharp *Rheinberger*

4.45. Orchestra, Harp and Harmonium.
Serenade, Op. 20 .....*Elgar*
"Sospiri" Adagio for Strings, Op. 70 *Elgar*

5.0–5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*

CRAIGIE ROSS (Solo Pianoforte).
GEORGE PARKER (Bass).
ORPHEUS TRIO { H. L. GIBSON (Flute). R. G. SOMERS (Oboe). CHARLES L. LEESON (Pianoforte).
CONGREGATIONAL CHURCH CHOIR.
Choirmaster, A. J. WARDEN.

8.0. Orpheus Trio.
"Méditation" .....*Gounod*

8.40. Choir.
Hymn, "The Roseate Hues of Early Dawn" (Congl. Hymnal No. 257).

8.45.—The Rev. HOWARD PARTINGTON, B.A., Charminster Road Congregational Church; Religious Address.

8.55. Choir.
Hymn, "O Light of Life, O Saviour Dear" (No. 893).
"The God of Love My Shepherd is" *Wardan*
(Soloist, ETHEL STRIDE.)

9.5. Orpheus Trio.
"Fugal Concerto" ..... *Holst* (11)

9.15. George Parker.
"The Hostel" .....*Bairstow* (14)
"I Love My God" .....*Bullock* (2)
"The Land of Heart's Desire" } *Martin Shaw* (2)
"O Falmouth is a Fine Town" }

9.25. Craigie Ross.
Sarabande and Gigue" *Rameau, arr. MacDowell* (4)
Fantasia, C Minor .....*Bach*
"Arietta" .....*Leonard Leo*
"Lied, F Major" .....*Mendelssohn*
"Ballade, A Flat" .....*Chopin*

9.50. George Parker.
"The Vagabond" ..... } *Vaughan Williams* (1)
"Bright is the Ring of Words" ..... }
"The Roadside Fire" .....

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.

10.10. Craigie Ross.
"Soaring" .....*Schumann*
"Nocturne" .....*Cyril Scott* (4)
"Seguidilla" .....*Albeniz*
"Valse Caprice" .....*Craigie Ross*

10.25. George Parker.
"She is Far From the Land".....*Lambert*
"Night" .....*G. Gwythar*

10.30.—Close down.

Announcer: John H. Raymond.

CARDIFF.

3.0–4.30. WORKS BAND OF THE NATIONAL OIL REFINERIES, LIMITED.
Conductor, CHRISTOPHER JONES.
Vocalist, FELICE HYDE (Contralto).
I. March, "Conqueror" .....*Moorhouse*
Fantasia, "Plantation Melodies" *S. Douglas*
II. Songs:
"Danny Boy" .....*Old Irish Air*
"Sapphic Ode" } .....*Brahms*
"Eternal Love" }
III. Selection, "William Tell" *W. Rimmer*
Air Varie, "Eternal Father, Strong to Save" .....*J. A. Greenwood*
Air Varie, "Spanish Chant" ...*Round*
IV. Songs.
"The Cloths of Heaven" .....*Dunhill*
Russian Folk Song.
"Softly Awakes," ("Samson and Delilah") .....*Saint-Saëns*
V. Cornet Solo, "Ora Pro Nobis" *Wright and Round*
Prelude ..*Rachmaninoff, arr. Fieldman*
Tone Poem, "Coriolanus" ..*E. Smith*
Announcer: A. H. Goddard.

5.0–5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*

8.0.—READINGS FROM THE SCRIPTURES.
Hymns with Welsh Tunes, specially selected, sung by "5WA" CHOIR.
E. R. APPLETON will give the first of the Weekly Talks on "Religion and Beauty." His subject is "The Influence of Environment."
Hymns, Selected.

8.40. Recital by
BEATRICE HARRISON
(Solo Violoncello).
I. "Sonata" .....*Sammartini-Salmon*
II. "Irish Lament" .....*Scott*
"Song Without Words" .....
Mendelssohn-Kreisler
"Mazurka" .....*Popper*

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—SUNDAY (Continued from the facing page.)

The letters "S.B." printed in Italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

9.0. "HYMN OF PRAISE"
(Mendelssohn).
THE STATION SYMPHONY ORCHESTRA.
Conductor, WARWICK BRAITHWAITE.
Vocalists { EDWARD LEER (Tenor). DORIS VANE (Soprano). "5WA" CHOIR.
Symphony:
(a) Maestoso con Moto; (b) Allegro; (c) Allegretto Agitato; (d) Adagio Religioso.
Chorus ..... "All Men, All Things"
Solo and Chorus ..."Praise Thou the Lord"
Recitative (Tenor) ....."Sing Ye Praise"
Air (Tenor)
"He Counteth All Your Sorrows"
Chorus "All Ye that Cried Unto the Lord"
Duet (Soprano) and Chorus
"I Waited for the Lord"
Air (Tenor) ...."The Sorrows of Death"
Recitative (Tenor)
"We Called Through the Darkness"
Solo (Soprano) and Chorus
"The Night is Departing"
Choral ....."Let All Men Praise the Lord"
Duet (Soprano and Tenor)
"My Songs Shall Alway be Thy Mercy"
Chorus .."Ye Nations, Offer to the Lord"
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.
10.20.—Close down.

Announcer: W. N. Settle.

MANCHESTER.

2.0 THE STEPHENS MILITARY BAND.
Conductor, R. C. STEPHENS.
MOLLY GRAY (Soprano).
Band.
Overture, "Sicilian Vespers" ..... *Verdi*
"Three Rural Scenes" ..... *Mati*
Sacred Song, "The Better Land" *Cowen* (1)
(Solo Cornet, F. STEPHENS.)
Reminiscences of Gounod.
Mollie Gray.
"Gloria" ..... *Bucci Proein*
"Rosa'd is My Lote" ..*Montague Phillips*
Band.
Suite, "Hérodiade" ..... *Massenet*
Mercean, "Love's Greetings" ..
Reverie, "Optimism" ..... } *Stephens*
Mollie Gray.
"Beyond the Veil" .... *Kennedy Russell*
"Les Rameaux" ..... *D. Mattioch*
Band.
Duet, "The Angels' Serenade" .... *Braga*
(Duettists, BIRKLY AND STEPHENS, Clarinet and Cornet.)
"Hungarian Rhapsody," No. 2 .... *Liszt*
5.0-5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*
8.0.—S. G. HONEY: Talk to Young People.

8.35. **Chamber Music.**
NELL DAVIS (Soprano).
THE "2ZY" STRING QUARTETTE.
Quartette, Op. 19, "Serenata" ....*Mozart*
Nell Davis.
"Air des Adieux" ("Jeanne d'Arc") *Tchaikovsky*
Quartette, Op. 54 ..... *Haydn*
Nell Davis.
"Ritorna Vincitor" ("Aida") .... *Verdi*
9.40.—Hymn, "Praise Ye the Lord."
Rev. W. Brown Pollack, Religious Address.
Hymn, "The Sands of Time are Sinking."
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.
10.10.—Quartette, Op. 18, No. 3..... *Beethoven*
10.30.—Close down.

Announcer: Victor Smythe.

NEWCASTLE.

3.0-5.0.—*Programme S.B. from London.*
5.0-5.30.—CHILDREN'S CORNER. *S.B. from 2LO and Stations.*
8.30. JESMOND BAPTIST CHURCH BOYS' CHOIR.
Hymn, "A Friend of Little People."
Sunday School Union.
8.35.—The Rev. D. RHYS LEWIS, Jesmond Baptist Church: Religious Address.
8.50.—Hymn, "Evening Praise." (Redemption Songs.)

An Hour of Brahms.
OLIVE TOMLINSON (Pianoforte).
WILLIAM A. CROSSE (Clarinet).
ARTHUR J. BULL ('Cello).
NORAH L. ALLISON (Soprano)
ARCHIBALD ARMSTRONG (Baritone).
8.55. Pianoforte, Clarinet and 'Cello.
Trio in A Minor, Op. 114, Movements 1 and 2.
Soprano Songs.
"Twilight" } Op. 49.
"Cradle Song" }
Pianoforte Solo.
Rhapsody in G Minor.
Baritone Songs.
"Oh! That I Might Retrace the Way" } Op. 63, *Junge Lieder*
"Like a Blossoming Lilac" }
"The Flowers that Bloomed for Me, a Child" }
Soprano Songs.
"With Joy and Hope" } Op. 33.
"Was It Thou?" }
"True Love" }
Pianoforte, Clarinet and 'Cello.
Trio in A Minor, Op. 114, Movements 3 and 4.
Pianoforte and 'Cello.
Sonata in E Minor, Op. 38, Movements 1 and 2.
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.
10.15.—Close down.

Announcer: R. C. Pratt.

ABERDEEN.

3.0. THE WIRELESS QUARTETTE.
Selection, "Le Jongleur de Notre Dame" *Massenet*
3.15. Mrs. F. GIBSON (Contralto).
"The Princess" } .....*Greig*
"Outward Bound" }
3.25. JAMES P. CAMERON (Tenor).
Recit. and Air, "But Who May Abide" ..... } *Handel* (11)
Air, "Why Do The Nations"
3.35. Quartette.
Pianoforte Quartette in G Minor..*Mozart*
3.50. Mrs. F. Gibson.
"Hear Ye Israel" ("Elijah") *Mendelssohn* (11)
"From Mighty Kings" .... *Handel* (11)
4.0. James P. Cameron.
"Litany" ..... *Schubert* (1)
"Sunday" ..... *Brahms*
4.10. Quartette.
Mosaique on the Works of Schubert.
4.25. Mrs. F. Gibson.
"Lord, Save Me" (Dramatic Scene) *Adams*
"Let the Bright Seraphim" ("Samson") *Handel* (11)

WAVE-LENGTHS AND CALL SIGNS.

ABERDEEN (2BD)	495	Metres
BIRMINGHAM (5IT)	475	"
GLASGOW (5SC)	420	"
NEWCASTLE (5NO)	400	"
BOURNEMOUTH (6BM)	385	"
MANCHESTER (2ZY)	375	"
LONDON (2LO)	365	"
CARDIFF (5WA)	351	"
PLYMOUTH (5PY)	335	"
EDINBURGH (2EH)	325	"
LIVERPOOL (6LV)	318	"
SHEFFIELD (6FL)	303	"
LEEDS } (2LS)	346	"
BRADFORD }	310	"

4.35. James P. Cameron.
"The People that Walked in Darkness" *Handel* (11)
"It is Enough" ..... *Mendelssohn* (11)
4.45. Quartette.
Overture, "Stradella" ..... *Flotow*
"March Solenelle" ..... *Luigini*
5.0-5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*
8.30. THE WIRELESS ORCHESTRA.
Suite, "The Miracle" .... *Humperdinck*
9.0. THE BIELSIDE EPISCOPAL CHURCH CHOIR.
"Magnificat" (Garrett's Setting in F).
The Rev. A. AUSTIN FOSTER, Bielside Episcopal Church: Religious Address.
Choir.
"Nunc Dimittis" (Garrett's Setting in F).
9.15. Orchestra.
"Recollections of Gounod" .. *arr. Godfrey*
"Herodiade Suite" ..... *Massenet*
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.
10.15. Orchestra.
Overture, "Melusine" ..... *Mendelssohn*
10.25.—Close down.

Announcer: W. D. Simpson.

GLASGOW.

3.0. THE WIRELESS QUARTETTE.
Overture, "Hungady Laszlo" ..... *Erkel*
Musical Comedy Selection, "The Beauty Prize" ..... *Kern*
3.20 ALEXANDER MACGREGOR (Baritone).
"Bedouin Love Song" ..... *Pinsuti*
"An Assyrian Love Song" ..... *M. Rizy*
3.30. Quartette.
Suite, "Ballet Egyptien" ..... *Luigini*
3.45. AMY MURDOCH (Contralto).
"Ave Maria" ..... *Schubert* (1)
"Shepherd's Cradle Song" ..... *Somervell*
3.55. Quartette.
Selection, "Samson and Delilah" *Saint-Saens*
4.10. Amy Murdoch.
"Depuis le Jour" ("Louise") *Charpentier*
"The Piper of Love" ..... *M. Cowen*
4.40. Quartette.
"Three Hungarian Dances" ..... *Brahms*
"Coronach" ..... *Bennet* (4)
5.0-5.30.—CHILDREN'S CORNER. *S.B. from Newcastle.*
8.30. "GBCS" PSALMODY QUARTETTE.
Psalm 119 (1-6) (Tune: "Jackson," No. 24.)
8.35.—The Rev. E. H. BRERETON, M.A., of Christ Church, Morningside, Edinburgh, Religious Address.
8.50.—Psalm 122 (Tune: "St. Paul," No. 116.)
8.55. LAURENCE MACAULAY (Baritone).
Hungarian Melody, "There Was None to Match Kovsko's" ..... *Koshey*
"The Blind Ploughman" ... *R. C. Clarke*
9.5. E. B. APPLEYARD (Solo Pianoforte).
Prelude Nos. 23, 21, 22
Etude, Op. 10, No. 5..... } .....*Chopin*
Scherzo, C Sharp Minor
Waltz in E Minor .....
9.20. Laurence Macaulay.
"Five-and-Twenty Sailormen" *Coleridge-Taylor*
"Minstrel" ..... *Schubert*
9.30. E. B. Appleyard.
"Capriccioso" ..... *Schad*
"Hark, Hark, the Lark" ... *Schubert-Liszt*
"Valse-Caprice" ..... *Rubinstein*
9.45. Laurence Macaulay.
"A Prayer to Our Lady" ... *Arnold Ford*
"Vagabond" ("Songs of a Rover") *R. C. Clarke*
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.* Local News.
10.20.—Close down.

Announcer: Herbert A. Carruthers.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—MONDAY (July 21st.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the stations mentioned.

LONDON.

4.0-5.0.—Time Signal from Greenwich. Concert: Yvonne Cloud on "Taking the Cure," "2LO" Trio, "Bee-keeping" (2), by Arnold Richards.

5.0-5.45.—CHILDREN'S CORNER: Sabo Story, "The Wreck," by E. W. Lewis. "Treasure Island," Chap. 23, Part 1, by Robert Louis Stevenson. Piano Syncopations by Uncle Ragtime.

7.0.—TIME SIGNAL FROM BIG BEN. 1ST GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

JOHN STRACHEY (the B.B.C. Literary Critic) Fortnightly Book Talk. *S.B. to all Stations.*

Local News.

7.30-8.0.—Interval.

8.0.—HUMBERT WOLFE reading: "Kensington Gardens" and other of his poems.

8.20. **Chamber Music Evening.**

Debussy Programme.

KATE WINTER (Soprano).
KATHLEEN LONG (Solo Pianoforte).
THE SNOW STRING QUARTETTE.
(JESSIE SNOW, KENNETH SKEAPING, ERNEST TOMLINSON, EDWARD ROBINSON.)

Pianoforte Soli.

"Cloches à travers les Feuilles" ("Bells Across the Leaves").
"La Fille aux Cheveux de Lin" ("The Girl With the Flaxen Hair").

Songs.

"Les Cloches" ("The Bells").
"Romance."
"Mandoline."

8.57. An Interlude: "From My Window," by Philemon.

Movements from String Quartette in G Minor:

(a) Animé et très décidé; (b) Andantino doucement expressif; (c) Assez vif et bien rythmé.

Pianoforte Soli.

"Jardins sous la Pluie" ("Rain in the Garden").
"Golliwog's Cakewalk."

9.15.—Speeches by **H.R.H. THE PRINCE OF WALES** and **H.R.H. THE DUKE OF CONNAUGHT,** at the PILGRIM CLUB DINNER **in honour of Mr. HUGHES, SECRETARY OF STATE TO THE U.S.A.,** relayed from Hotel Victoria. *S.B. to all Stations except Bournemouth.*

10.0.—TIME SIGNAL FROM GREENWICH. 2ND GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

Local News.

10.15.—THE SAVOY ORPHEANS AND SAVOY HAVANA BANDS, relayed from the Savoy Hotel, London. *S.B. to all Stations.*

11.30.—Close down.

Announcer: J. S. Dodgson.

BIRMINGHAM.

3.30-4.30.—Locelia Picture House Orchestra, Directed by Paul Rimmer.

5.0-5.30.—WOMEN'S CORNER: Sidney Rogers, F.R.H.S., on "Topical Horticultural Hints."

5.30-5.35.—Agricultural Weather Forecast.

5.35-6.30.—CHILDREN'S CORNER.

6.30-6.45.—"Teens" Corner: Uncle Felix on "Naval History."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

JOHN STRACHEY. *S.B. from London.*

Local News.

7.30-8.0.—Interval.

Miscellaneous Programme.

8.0. ROBERT PITT AND LANGTON MARKS in "Duets-up-to-Date."

8.15. ERNEST JONES (Banjoist) with LESLIE BARTLEET (at the Piano).

"Pompadour" ..... *Morley*
"A Spanish Romance" ..... *Grimshaw*
"Mississippi Bubble" ..... *Barnes*

8.30. FRANK THOMPSON (Entertainer).

Humorous Song, "Bridegroom Oratory" *Glanvill* (13)
Monologue, "Post Bellum" ..... *Sapte*
Monologue, "The Vicar's Presentation" *Squirrs* (13)

8.45. Ernest Jones and Leslie Bartleet.

"An Irish Phantasy" ..... *Cammeyer*
"The Darktown Dandies" ..... *Morley*
"Bolero" ..... *Cammeyer*

9.0.—Robert Pitt and Langton Marks in "Duets Topical and Tropical."

9.15.—Speeches at the PILGRIM CLUB DINNER to Mr. HUGHES, Secretary of State to U.S.A. *S.B. from London.*

10.4.—NEWS and WEATHER FORECAST. *S.B. from London.*

Local News.

10.15.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.

Announcer: C. J. Paterson.

BOURNEMOUTH.

3.45-5.15.—The "6BM" Trio: Reginald S. Mount (Violin), Thomas Illingworth ('Cello), Arthur Marston (Pianoforte). The Orpheus Trio: H. L. Gibson (Flute), R. G. Somers (Oboe), Charles Leeson (Pianoforte). Talks to Women. Miss Grace Addison, M.A., on "The Famous Women of the 18th Century."

5.15-6.15.—CHILDREN'S CORNER.

6.15-6.45.—Scholars' Half-Hour: Miss M. R. Dacombe, M.A., on "Outdoor History—Houses."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

JOHN STRACHEY. *S.B. from London.*

Local News.

7.30-8.15.—Interval.

ENID SHAW (Elocutionist).
THE MAYFAIR SINGERS (Male Voice Quartette).
GEORGE PIZZEY (Baritone).
THE BOURNEMOUTH MUNICIPAL ORCHESTRA.

Relayed from the Winter Gardens.
Conductor, SIR DAN GODFREY.

8.15. Orchestra.

"Norwegian Carnival" ..... *Svendsen*
Overture, "Der Freischutz" } ..... *Weber*
"Invitation to the Waltz" }

8.40. The Mayfair Singers.

"Matona, Dearest Maiden" ..... *Di Lasso*
"Go, Rose" ..... *Beale* (11)
"John Peel" ..... *Woldenholme*

8.50. George Pizzey.

"To-Morrow" ..... *F. Keel*
"Love, Could I Only Tell Thee" ..... *Capel*

9.0. The Mayfair Singers.

"Down in a Flow'ry Vale" ..... *Festa* (11)
"Fain Would I Change that Note" *Vaughan Williams* (11)
"Foresters, Sound the Horn!" ..... *Beale* (11)
"Sweet and Low" ..... *Barnby* (11)
"Absence" ..... *Hutton* (11)
"When Evening's Twilight" ..... *Hutton* (11)

9.15. Enid Shaw.

"Chance It" ..... *Cuthbert Clarke* (11)
"Kisses" ..... *Longstaffe* (13)

9.25. George Pizzey.

"Sea Fever" ..... *John Ireland*
"A Warwickshire Wooing" ..... *James*

9.30. Orchestra.

"Unfinished Symphony" ..... *Schubert*
Scherzo, "L'Apprenti Sorcier" ..... *Dukas*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Local News.

10.15.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.

Announcer: John H. Raymond.

CARDIFF.

3.0-4.0.—The Station Trio. Herbert Isaacs (Solo Violin).

4.0-4.45.—The Carlton Orchestra, relayed from the Carlton Restaurant.

5.0-5.45.—"5WA'S" "FIVE O'CLOCKS": Ivor Richardson (Baritone). Talks to Women. Weather Forecast.

5.45-6.30.—CHILDREN'S CORNER.

6.30-6.45.—The Romance of Achievement (Studies in the Lives of Great Artists): "Leonardo Da Vinci and The Monna Lisa."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

JOHN STRACHEY. *S.B. from London.*

Local News.

7.30. Recital by

MAURICE COLE (Solo Pianoforte) and WINIFRED SMALL (Solo Violin).

I.—Sonata for Pianoforte and Violin in D Minor ..... *Brahms*

II. Violin Soli.

Prelude and Allegro ..... *Pugnani-Kreisler*
Berceuse ..... *Winifred Small*
Polichinelle ..... *Kreisler*
Zigeunerweisen ..... *Sarasate*

III. Pianoforte Soli.

Prelude in C Major (Op. 28) }
Prelude in D Minor (Op. 28) } ... *Chopin*
Ballad in G Minor ..... *Chopin*
"Chanve Souris" ..... *Poldini*
"Night in May" ..... *Palmgren*
Nocturne ..... *Harding*
Etude in C ..... *Moszkowski*

8.15. **The British Musical Renaissance I.**

THE WORKS OF FREDERICK NICHOLLS.

Vocalists { HERBERT HEYNER (Baritone). DOROTHY HELMRICH (Mezzo-Soprano).

FREDERICK NICHOLLS (Solo Pianoforte).

THE STATION QUARTETTE.

I.—Quartette for Piano and Strings, "The Four Winds" (Movements 2 and 4).

(2) "The South Wind"; (4) "The West Wind."

II. Dorothy Helmrich.

"Song of Midsummer."
"Meadowsweet."
"A Widow Bird Sate Mourning."
"A Song for Thee."

III. Pianoforte Soli.

"The Swan."
"The Squirrel."
"Toccata."

IV. Herbert Heyner.

"Since to be Loved."
"A Wish."
"Who is Silvia?"
"Song of the Rose."
"Tell Me Not Now."

9.15.—Speeches at the PILGRIM CLUB DINNER to Mr. HUGHES, Secretary of State to U.S.A. *S.B. from London.*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Local News.

10.15.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.

Announcer: C. H. King.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 141.

WIRELESS PROGRAMME—MONDAY

(Continued from the facing page.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

MANCHESTER.

2.30-3.0.—MAINLY FEMININE. Edith Leach (Soprano).

3.15-4.0. } THE LUTON RED CROSS BAND,
4.10-5.0. } relayed from the Municipal Gardens, Southport. (Conductor, F. MORTIMER.)

5.45-6.0.—Children's Letters.

6.0-6.30.—CHILDREN'S CORNER.

6.30-6.55.—Chats with the Older Children.

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
JOHN STRACHEY. *S.B. from London.*
Local News.

7.30-8.0.—Interval.

8.0-11.30.—*Programme S.B. from London.*
Announcer: Victor Smythe.

NEWCASTLE.

3.45.—Concert: Madge Raine (Contralto), Thomas Boyes (Solo Cornet), Albert E. Tweddell (Tenor).

4.45-5.15.—WOMEN'S HALF-HOUR: Weekly News Letter. Elsie Robins on "Michael Fairless."

5.15-6.0.—CHILDREN'S CORNER.

6.0-6.30.—Scholars' Half Hour: A. W. Dakers, B.A., on "Stories of the Nations—Cæsar and Britain."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
JOHN STRACHEY. *S.B. from London.*
Local News.

7.30-8.0.—Interval.

Popular Programme.

8.0. THE STATION ORCHESTRA.
Conductor, WILLIAM A. CROSSE.
March, "Old Comrades" ..... *Teike*
Waltz, "Wonderful One" ... *Whiteman* (2)
JENNIE FORSTER (Soprano).
"Should He Upbraid?" ..... *Bishop* (1)
"In Springtime" ..... *Newton* (1)
G. T. EDMINSON (Tyneside Entertainer).
"Jackie at the Races" ..... *Robson*
Orchestra.
Selection, "A Plantation Holiday" *Scobold*
Jennie Forster.
Waltz Song ("Romeo and Juliet") *Gounod* (2)
"Good Morning, Brother Sunshine" *Lehmann*
G. T. Edminson.
"Jackie goes Shoppin'" ..... *Robson*
Orchestra.
Entr'acte, "In Love" ..... *Friml*
"Csardas Wana" ..... *Michaeli*

9.15.—Speeches at the PILGRIM CLUB DINNER to Mr. HUGHES, Secretary of State to U.S.A. *S.B. from London.*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Local News.

10.15.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.
Announcer: W. M. Shewen.

ABERDEEN.

2.30-5.0.—Dance afternoon by the Wireless Quartette. Mrs. R. Burnett on "The Hungarian Gypsy and his Music" (with Violin Illustrations). C. R. Harvey will Entertain. Feminine Topics.

6.0-6.30.—CHILDREN'S CORNER: Games Evening.

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
JOHN STRACHEY. *S.B. from London.*
Local News.

7.30-8.0.—Interval.

8.0.—Girl Guides' News Bulletin. Boy Scouts' News Bulletin.

Everybody's Programme.

NORA DELMARR (Soprano).
THE WIRELESS ORCHESTRA.
Orchestra.

6.15.—"Prelude" ..... *Rachmaninoff*
"Simple Aveu" ..... *Thome*

6.30. Nora Delmarr.
"Absent" ..... *Metcalfe* (1)
"Garden of Happiness" ..... *Wood* (8)

6.40. Orchestra.
Selection, "Werther" ..... *Massenet*

6.50. Nora Delmarr.
"Hark, Hark, the Lark" ..... *Schubert*
"The Tryst" ..... *Schelling*
"I Love Thee" ..... *Grieg*
"Non la Sospiri" ("Tosca") ... *Puccini*

9.5. Orchestra.
Selection, "The Ring Boys on Broadway" *Ayer* (6)

9.15.—Speeches at the PILGRIM CLUB DINNER to Mr. HUGHES, Secretary of State to U.S.A. *S.B. from London.*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Local News.

10.15.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.
Announcer: A. M. Shinnie.

GLASGOW.

3.30-4.30.—Popular Afternoon: The Wireless Quartette and Mary Ferrier (Soprano).

4.45-5.15.—TOPICS FOR WOMEN: "Topical Afternoon." Miss Kinross, of the West of Scotland Agricultural College, Kilmarnock, on "Poultry."

5.15-6.0.—CHILDREN'S CORNER: Letter Competition Results.

6.0-6.5.—Weather Forecast for Farmers.

6.40-6.55.—Prof. R. M. Cavan, of The Royal Technical College, on "Chemistry."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
JOHN STRACHEY. *S.B. from London.*
Local News.

7.30-8.0.—Interval.

Popular Night.

"Alas for those that never sing, but die with all their music in them."—*Holmes.*

LEWIS COWIE (Baritone).
WILLIAM GILCHRIST (Tenor).
ANDREW BRYSON (Solo Pianoforte).
THE STATION ORCHESTRA
Conducted by ISAAC LOSOWSKY.

8.0. Orchestra.
Overture, "The Huguenots" ... *Meyerbeer*

8.10. Lewis Cowie and William Gilchrist.
Duets { "Watchman! What of the Night?" ... *Sargent* (1)
"Go to the Field of Glory" ..... *Donizetti*

8.20. Andrew Bryson.
Rhapsodie, Op. 11 ..... *Debussy*
"Papillons" ..... *Grieg*
"The Island Spell" ..... *J. Ireland*

8.30. Orchestra.
Musical Comedy Selection, "San Toy" *Jones*

8.40. Lewis Cowie.
"The Mistress of the Master" *M. Phillips*
"Never Say Die" ..... *Farquhar* (8)

8.50. Andrew Bryson.
"Ad Ruisseau" ..... *Schütt*
"Goyescas" (No. 6) ..... *Granados*
"The Hobby Horse" ..... *L. Lucas* (17)

9.5. William Gilchrist.
"My Jo, Janet" ..... *J. M. Diack*
"An Island Sheiling Song" *Kennedy-Fraser* (1)

9.15-10.0.—Speeches at the PILGRIM CLUB DINNER to Mr. HUGHES, Secretary of State to U.S.A. *S.B. from London.*

10.10.—NEWS and WEATHER FORECAST. *S.B. from London.*
Local News.

10.15.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.
Announcer: Mungo M. Dewar.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

EVENTS OF THE WEEK.

SUNDAY, July 20th.

LONDON, 3.0.—Band of H.M. Royal Air Force.

CARDIFF, 9.0.—Hymn of Praise (Mendelssohn).

MONDAY, July 21st.

LONDON, 8.0.—Humbert Wolfe reading his Poems.

LONDON, 8.20.—Debussy Chamber Music Programme.

LONDON, 9.15.—Speeches by H.R.H. The Prince of Wales and H.R.H. The Duke of Connaught at the Pilgrim Club Dinner to Mr. Hughes, Secretary of State to U.S.A. S.B. to other Stations.

CARDIFF, 8.15.—The Works of Frederick Nicholls.

TUESDAY, July 22nd.

BIRMINGHAM, 8.30.—Professor Granville Bantock at the Piano.

BOURNEMOUTH, 8.30.—Plantation Night.

NEWCASTLE, 8.0.—Choral and Dramatic Evening.

GLASGOW, 8.30.—Play Night.

WEDNESDAY, July 23rd.

BIRMINGHAM, 8.0.—Musical Comedy, "Phillida" or "Love on the Prairie."

BOURNEMOUTH, 9.30.—Two Duologues.

CARDIFF, 9.0.—C. Hayden Coffin in "The Master Wayfarer."

NEWCASTLE, 8.0.—Operatic and Folk Song Evening.

THURSDAY, July 24th.

BIRMINGHAM, 8.0.—"The Merchant of Venice."

BOURNEMOUTH, 8.0.—Band of H.M. Royal Artillery, relayed from South Parade Pier, Southsea.

CARDIFF, 8.0.—An Evening of Plays.

NEWCASTLE, 8.0.—Rossini Evening.

FRIDAY, July 25th.

NEWCASTLE, 8.0.—Spanish Evening.

GLASGOW, 8.0.—Pianoforte Recital by Maurice Cole.

WIRELESS PROGRAMME—TUESDAY (July 22nd.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

LONDON.

1.0-2.0.—Time Signal from Big Ben. Concert: The Wireless Trio and Alfred Heney (Baritone).

4.0-5.0.—Time Signal from Greenwich. Concert: "Books Worth Reading," by Jenny Wren. Organ and Orchestral Music relayed from Shepherd's Bush Pavilion. Mr. C. Pollard Crowther on "Japan."

6.0-6.45.—CHILDREN'S CORNER: "The Flying Horse" (from "Arabian Nights Entertainments"), told by Harcourt Williams. Songs by Phyllis Anderson (Mezzo-Soprano). "Cattle Ranching," by W. J. Fielding.

6.45-7.0.—Talk on "The Charity Organising Society," by Cecil Chapman.

7.0.—TIME SIGNAL FROM BIG BEN, 1ST GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

Capt. P. P. ECKERSLEY—Technical Topics. *S.B. to all Stations.*

Local News.

7.30-8.0.—Interval.

Musical Comedy Night.

ROSALIE HAMILTON (Light Soprano).
JOHN VAN ZYL (Baritone).
A. E. NICKOLDS and ALBERT H. HOWELL,
in Vocal, Instrumental and Humorous Harmony.
THE WIRELESS ORCHESTRA.
Conducted by DAN GODFREY, Junr.

8.0.—Overture—"Opera Bouffe" ..... *Finck*
Waltz, "The Girl in the Taxi" ... *Gilbert*
Selection, "Rattling Butler" ..... *Braham*

Light Soprano Songs.

"Catch Me."
"He Played the Wedding March."

Baritone Songs.

"Ho, Jolly Jenkin" ("Ivanhoe") *Sullivan*
"Yeomen of England" ("Merrie England") ..... *German*

The Orchestra.

Selection, "Kissing Time" } *Caryll*
Selection, "Oh! Oh, Delphine!" }

A. E. Nickolds and Albert H. Howell.

Selection, "The Merry Widow" ... *Lehar*
"Cheero" (The Palace Girls' Dance) *Finck*
Fox-trot, "Dancing Time" ("The Cabaret Girl") ..... *Kern*

10.0.—TIME SIGNAL FROM GREENWICH, 2ND GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

Mr. C. LEONARD WOOLLEY on "Beginnings of History in Babylonia." *S.B. to all Stations except Manchester.*

Local News.

10.30. The Orchestra.

Three Dances, "Hullo America" ... *Finck*

Light Soprano Songs.

"No, No, Nora" ..... (?)
"Oh, Harold!" ..... (?)

Baritone Songs.

"Song of the Cricket" ("The Cricket on the Hearth") ..... *Mackenzie*
"A Jovial Monk" ("La Poupée") *Audran*

The Orchestra.

Selection, "Joy Bells" ..... *Chappelle* (?)

11.0.—Close down.

Announcer: R. F. Palmer.

BIRMINGHAM.

3.30-4.30.—The Station Pianoforte Quintette. Directed by Frank Cantell.

5.0-5.30.—WOMEN'S CORNER: A. M. Shepherd on "The Story of a Cup of Tea."

5.30-5.35.—Agricultural Weather Forecast.

5.35-6.30.—CHILDREN'S CORNER.

6.30-6.45.—"Teens' Corner: Harold Howes (Baritone), in "Songs of the Army."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

CAPT. P. P. ECKERSLEY. *S.B. from London.*

Local News.

7.30-8.0.—Interval.

A Pianist, and some Notable Songs.

8.0. HAROLD WILLIAMS (Baritone).

"Gazing Around" ("Tannhäuser") *Wagner* (11)
"O Star of Eve" ("Tannhäuser") *Wagner* (11)
"Toreador's Song" ("Carmen") ... *Bizet*

8.15. MAURICE COLE (Solo Pianoforte).

Impromptu in A. Flat ..... }
Nocturne in B, No. 2 ..... } *Chopin*
Etude in E Major, Op. 10, No. 3 }
Etude in G. Flat, Op. 10, No. 5 }

8.30. DENNE PARKER (Mezzo-Soprano) with Prof. GRANVILLE BANTOCK at the Piano.

In a Recital of Granville Bantock's Songs.

Dramatic Lyrics.

"In a Year" ..... (4)
"A Woman's Last Word" ..... (4)
"Home Thoughts" ..... (4)

Songs from the Chinese.

"The Emperor" ..... (4)
"The Golden Nenuphar" ..... (4)
"Yung Yang" ..... (4)
"A Feast of Lanterns" ..... (4)

Songs.

"The Reed Player" ..... (4)
"A Widow Bird" ..... (4)
"Hymn of Pan" ..... (4)

9.15. "5IT" MALE VOICE QUARTETTE.

Part Songs.

"A Stream of Silver Moonshine" *Geibel*
"The Last Love" ..... *Thomas*
"It's oh, to be a Wild Wind" *Elgar* (11)
"A Franklyn's Dogge" ... *Mackenzie* (11)

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. C. LEONARD WOOLLEY. *S.B. from London.*

Local News.

10.30. Maurice Cole.

Toccata, Op. 7 ..... }
Variations on the Letters A B E G G ..... } *Schumann*

10.45. Harold Williams.

"Marishka! Marishka!" }
"Had a Horse" ... } (Hungarian Melodies)
"Shepherd, See Thy Horse's Foaming Mane" } *Arr. Korbay*

11.0.—Close down.

Announcer: C. J. Paterson.

BOURNEMOUTH.

3.45-5.15.—Dorothy Clarke (Contralto). THE ROYAL BATH HOTEL DANCE ORCHESTRA, relayed from King's Hall Room. (Musical Director: DAVID S. LIFF.) Talks to Women. A Woman Doctor on "Mothercraft."

5.15-5.25.—CHILDREN'S CORNER.

6.15-6.45.—Scholars' Half-Hour: John Adams, A.R.C.A., on "The Dutch Painters of the 17th Century."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Capt. P. P. ECKERSLEY. *S.B. from London.*

Local News.

7.30-8.30.—Interval.

Plantation Night.

All Songs with Orchestral Accompaniment.
MARY LOHDEN (Mezzo-Soprano).
FRED DOUGLAS and HARRY COVE (Duettists).
GERALD KAYE (Tenor).
CHARLES STAINER (Solo Banjo).
THE WIRELESS ORCHESTRA.
Conductor:
Capt. W. A. FEATHERSTONE.
THE "6BM" CHORUS.

8.30. Orchestra.

Selection of Clutsam's Plantation Songs and Dances.

8.45. Charles Stainer.

"Niggertown" ..... *Morley*
"The Minstrel Man" ..... *Grunshaw*
"Georgia Medley" ..... *Morley*

8.55. Gerald Kaye and Chorus.

"Pompey's Ball" }
"De Lecture" ... } ..... *Scott Gatty* (1)
"But It Is So" }

9.5. Fred Douglas and Chorus.

"The Coon Drum Major" ... *Leslie Stuart*

Harry Cove and Chorus.

"Ma Curly-Headed Babby" ..... *Clutsam*

9.20. Mary Lohden and Chorus.

"Who's That a-Calling?" ..... *Lawrence*
"Old Folks at Home" ..... *Foster*

9.30. Charles Stainer.

"Darktown Dandies" ..... *Morley*
"Swingalong March" ..... *Stainer*

9.35. Orchestra.

Sketch, "By the Swanee River" *Myddleton*

9.45. Charles Stainer.

"A Black Coquette" ..... *Grunshaw*
"Cheerio" ..... *Stainer*

9.50. Fred Douglas and Harry Cove.

"Ten Minutes in Coon Land."

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. C. LEONARD WOOLLEY. *S.B. from London.*

Local News.

10.30. Gerald Kaye and Chorus.

"De Ole Banjo" }
"Who Did?" ... } ..... *Scott Gatty* (1)
"Good Night" ... }

10.40. Mary Lohden and Chorus.

"Kemo Kimo" ..... *Traditional*
"Marching Through Georgia" ..... *Work*

10.50. Orchestra and Chorus.

"Happy Days in Dixie."

11.0.—Close down.

Announcer: John H. Raymond.

CARDIFF.

3.0-4.0.—Falkman and his Orchestra relayed from the Capitol Cinema.

5.0-5.45.—"5WA'S" "FIVE O'CLOCKS". W. E. Llewellyn (Baritone). Talks to Women. Weather Forecast.

5.45-6.30.—CHILDREN'S CORNER.

6.30-6.45.—"How to Write Stories" (X.), by an Editor.

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Capt. P. P. ECKERSLEY. *S.B. from London.*

Local News.

8.0. **An Hour of Gay Music.**

Vocalist: DORIS LEMON.
THE STATION ORCHESTRA.

I.—Suite, "Language of Flowers" *Coates*

II. Songs.

"Butterfly Wings" ..... *M. Phillips*
"Carnival Time" ..... *M. Phillips*

III.—"Norwegian Dances" ..... *Grieg*

IV. Songs.

"Sing, Joyous Bird" ..... *M. Phillips*
"O Ship of My Delight" ... *M. Phillips*

V.—"Bagatelle" ..... *Ireland* (11)

VI.—Introduction to Act II., "Königskinder" ..... *Humperdinck*

9.0.—Mr. RICHARD TRESEDER on "Gardening."

9.45. **Welsh Music for Wembley.**

Address upon and Illustrations of the Music to be performed in the "All Wales Week" at Wembley Exhibition. Conducted and Directed by Sir HENRY WALFORD DAVIES, Mus.Doc., LL.D., Director of Music and Chairman of the National Council of Music, University of Wales.

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. C. LEONARD WOOLLEY. *S.B. from London.*

Local News.

10.30.—Close down.

Announcer: A. R. Goddard.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—TUESDAY (Continued from the facing page.)

The letters S.B. printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

MANCHESTER.

12.30-1.30.—Midday Music relayed from the Piccadilly Picture Theatre.
2.30-3.0.—MAINLY FEMININE: Mrs. Stanley Edwards, On Trek in Central Africa."
3.30-4.30.—Concert by the "2ZY" Quartette.
5.[illegible]
6.[illegible] CORNER
7.0.—NEWS and WEATHER FORECAST
[illegible] from London
Capt. P. P. ECKERSLEY. *S.B. from London.*
Local News.
7.30-8.0. [illegible]
8.0 **Music and Merriment.**
THE "2ZY" ORCHESTRA.
LITTLE MERRY FOLKS
JEAN GORDON (Comedienne).
Orchestra.
March, "Florentina" ..... *Fucik*
Waltz, "Destiny" ..... *Bayues*
Selection, "After the Girl" ..... *Rubens*
8.30 [illegible]
"Where There's a Girl There's a Boy" *E. Penso* (7)
"Does the Spearmint Lose Its Flavour?" *A. Breuer* (6)
8.[illegible] Pitt and Marks.
"Dusty Topical and Tropical."
8.45. Orchestra.
Idyll, "Dawn" ..... *Watt*
"Barbes Dans La Nuit" ..... *Alger*
Selection, "Roméo and Juliette" ..... *Gounod-Tavan*
[illegible]
OR, Cecil, I Shall Have to Call the Guard" *F. Eldridge* (7)
[illegible] Low-Shed
Donerell and Hargreaves (9)
9.[illegible]
[illegible]
[illegible]
[illegible]
[illegible] "Jig-Saw" ..... *arr. Jones* (7)
[illegible] WALTER EVANS
[illegible]
Local News.
Mr. C. J. CUTCLIFFE HYNE on "How [illegible] in Love" (6)
[illegible] (9)
10.45.—W. F. BLETCHER Examiner in Spanish to the London Chamber of Commerce.
11.0.—Close down.
[illegible] H. J. [illegible]

NEWCASTLE.

3.[illegible]-4.45.—Concert. Bessie Wilson (Solo Pianoforte), Laura Brook and Madge Clark (Duettists), Ralph Boulka (Solo Flute).
4.[illegible]-5.15. WOMEN'S HALF HOUR. Florence Holmes on "The Northumberland Hunt."
[illegible]
[illegible]
[illegible]
[illegible]
S.B. from London.
Capt. P. P. ECKERSLEY. *S.B. from London.*
Local News.
7.30-8.0. Interval.
Choral and Dramatic Evening.
[illegible] MALE VOICE CHOIR.
[illegible]
[illegible]
Lloyd (12)
R. M. KENT (Tenor).
[illegible]
Boynton Power (8)
"[illegible]"
[illegible]
Choir.
[illegible] Song. [illegible] *Buck* 11
Humorous March. "Musgan Musketeers" [illegible] 3
Glee, "Strike the Lyre" ..... *Cooke* (11)
8.30. "5NO" REPERTORY COMPANY.
"IN THE CELLAR."
(A Play in one act)
by
GERTRUDE JENNINGS.
Cast
Lord Kedermaster ..... ANDREW MILSON
Lieut. Hugh Ashford, R.N. ..... HAROLD EARNSHAW
Albert (a Page-boy) ..... [illegible] PATTERSON
Lady Kedermaster ..... JENNIE STEVENS
[illegible] ..... OLIVE ZALVA
Florrie (Kedermaid) ..... SAL STURGEON
[illegible] takes place in the cellar of No. 300, Grosvenor Square, in November, 1917
Choir
Glee, "Shades of the Heroes" ..... *Cooke* (21)
9.10. Repertory Company.
"POSTAL ORDERS"
(a Farce).
By ROLAND PERTWEE
Cast
Miss Budd (the Manageress) ..... JENNIE STEVENS
Miss Evans (an Assistant) ..... TERRY VAUGHAN
Miss Parker (an Assistant) ..... SAL STURGEON
Gladys Graham ..... OLIVE ZALVA
Ralph Wayne ..... GORDON LEA
The action takes place in a small post-office in an outlying district of the Metropolitan [illegible]
Choir.
[illegible] Comrades in Arms" ..... *Adam* (2)
Part Song, [illegible] ..... *Bloom* (2)
R. M. Kent.
"Charming Chloe" ..... *German*
[illegible] "My Lovely Celeste" [illegible]
[illegible]
[illegible]
10.0.—NEWS and WEATHER FORECAST.
[illegible]
Miss [illegible] DE WOOLLEY. *S.B. from London.*
Local News.
11.30 [illegible] *S.B. from London*
[illegible]
Announcer: E. L. Odhams.

ABERDEEN.

3.30-5.0.—Operatic Afternoon—The Wireless Quartette. Feminine Topics.
5.[illegible]-6.[illegible] [illegible] Hour for Young and Old Readers.
[illegible]
7.0. NEWS and WEATHER FORECAST
S.B. from London.
Capt. P. P. ECKERSLEY. *S.B. from London.* Local News.
7.30-8.30.—Interval.
Classical Night.
JEAN STEWART [illegible]
[illegible]
WILLY MEENAN [illegible]
[illegible]
ANDREW WATSON (Violoncello).
MARIE SUTHERLAND (Pianoforte).
8.30. THE WIRELESS QUARTETTE.
Two Movements from Pianoforte Quartette. [illegible] 16 *Beethoven*
8.45. Jean Stewart
When Twilight Comes ..... *Scott*
"Mary the Maiden" ..... *Carpenter*
8.55 Walter Hyde.
[illegible] "Pride of My Heart" } ..... *Strong*
[illegible]
9.5. Quartette.
Two Movements from Pianoforte Quartette, Op. 16 ..... *Beethoven*
9.20. Jean Stewart
[illegible] ..... *Quilter* 15
[illegible] ..... *Quilter* 11
9.30. Walter Hyde.
[illegible]
"Pride of My Heart" } ..... *Strong*
[illegible]
9.40. String Trio
"Divertimento" [illegible] ..... *Mozart*
10.0.—NEWS and WEATHER FORECAST
S.B. from London
Mr. C. LEONARD WOOLLEY. *S.B. from London.* Local News.
10.30 Jean Stewart
"Oh, My Heart's a Wing" ..... *Gerard Thomas* (1)
"The Torch" ..... *Pagan* (1)
10.40. String Trio
Trio ..... *Beethoven*
10.50. String Quartette
"Molly on the Shore" ..... *Grainger*
"Andante Cantabile" ..... *Tchaikowsky*
11.5. Close down.
Announcer: H. J. McKee

GLASGOW.

3.30-4.30.—Feature Afternoon—The Wireless Quartette and Helen W. Nesbit (Contralto)
4.45-5.15. TOPICS FOR WOMEN. A good [illegible]
5.15-6.0.—CHILDREN'S CORNER: Our Weekly Forty-five Minutes with the Smaller Children.
6.0-6.5. Weather Forecast for Farmers.
7.0.—NEWS and WEATHER FORECAST
S.B. from London
Capt. P. P. ECKERSLEY. *S.B. from London.* Local News.
7.30-8.0.—Interval.
Plays, Song, and Dance.
"It is the best of all trades to make songs, and the second best to sing them."—*Bello*
NORA DE MARR Soprano
THE STATION ORCHESTRA
Conducted by ISAAC LOSOWSKY
8.0. [illegible]
Selection [illegible] from "Hans Andersen" [illegible]
8.10. Nora Delmar
"Roses That Are Brightest" [illegible]
[illegible]
"The Dancing Lesson" ..... *Oliver* (6)
8.22. Orchestra
[illegible]
Two One-Act Comedies.
Produced by GEORGE ROSS and "5SC" REPERTORY COMPANY
8.32 [illegible]
By George Paston
Characters
[illegible]
GEORGE ROSS
[illegible]
GLADYS MACDONALD
A Maid ..... BERNARDINE MACDONALD
Scene: Drawing-room of the Grigsons
8.52. Orchestra.
Entr'acte, "Vision d'Amour" [illegible]
9.0 [illegible]
[illegible]
Captain Fulmer ..... ROGER ROSS
Mr. [illegible] ..... JAMES L. DYKES
Mrs. Bellringer ..... GLADYS MACDONALD
9.20. Orchestra
Waltz, "The Grenadiers" ..... *Waldteufel*
10.0 NEWS and WEATHER FORECAST
[illegible]
Mr. C. LEONARD WOOLLEY. *S.B. from London.* Local News.
10.30. Nora Delmar
[illegible]
[illegible]
10.45 [illegible] MALE VOICE CHOIR [illegible] relayed from Gleneagles Hotel
11.45.—Close down.
Announcer: Margo M. [illegible]

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 157

WIRELESS PROGRAMME—WEDNESDAY (July 23rd.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the stations mentioned.

LONDON.

6.0–6.0.—Time Signal from Greenwich.

Light Symphony Programme.

WYNNE AIELLO (Soprano)
VICTOR CAUNE (Tenor)
THE WIRELESS SYMPHONY ORCHESTRA
Conducted by DAN GODFREY, Jun.
"My Part of the Country," by A. BONNET LAIRD.

6.0–6.45.—CHILDREN'S CORNER: Martin Shaw's Musical Talk: "Handel," with Illustrations by the Wireless Orchestra.

7.0.—TIME SIGNAL FROM BIG BEN. 1ST GENERAL NEWS BULLETIN and WEATHER FORECAST *S.B. to all Stations.*

THEODORE RUETE on "Bits About Brushes." *S.B. to other Stations.*

Local News.

7.30–8.0.—Interval.

8.0. **Dance Evening.**

THE BERKELEY DANCE BAND
With Interludes at 8.30 and 9.30,
by
"THE ROOSTERS" CONCERT PARTY

The names of the Dance Items will be announced in the Daily Press.

10.0.—TIME SIGNAL FROM GREENWICH. 2ND GENERAL NEWS BULLETIN and WEATHER FORECAST *S.B. to all Stations.*

"The Week's Work in the Garden," by the Royal Horticultural Society. *S.B. to all Stations.*

Mr. QUINTIN WADDINGTON on "Empire Romances—The Tragedy of the Spice Islands." *S.B. to all Stations.*

Local News.

DANCE EVENING (continued).

10.35.—THE SAVOY ORPHEANS AND SAVOY HAVANA BANDS, relayed from the Savoy Hotel, London. *S.B. to all Stations.*

11.30.—Close down.

Announcer: J. S. Dodgson.

BIRMINGHAM.

3.30–4.30.—Lozells Picture House Orchestra: Directed by Paul Rimmer.

5.0–5.30.—WOMEN'S CORNER. Scott Brough on "Heraldry."

5.30–5.35.—Agricultural Weather Forecast.

5.35–6.30.—CHILDREN'S CORNER.

6.30–6.45.—"Teens' Corner: Ernest Bertram, F.R.P.S., on "Photography for the Holidays."

7.0.—NEWS and WEATHER FORECAST *S.B. from London.*

Mr. V. R. RYDER (Secretary Warwickshire C.C. Club) on "Warwickshire Cricket."

Local News.

7.30–8.0.—Interval.

Musical Comedy Night.

8.0. The First Wireless Production of the Musical Comedy,
"PHILLIDA" or
"LOVE ON THE PRAIRIE" (2).
Words by S. C. West
Music by C. Hector

Cast

Hans Vandoult, Dutch Proprietor of the "Cowboys' Home" ..PERCY EDGAR
Mama Vandoult, His English Wife ..GLADYS JOINER

Gertie, Flora, Angela	Daughters of above	EDITH PADDOCK, ISABEL TEBBS, FLORENCE CLAYTON
Half Mile Joe, All-the-Way Jim, Lariat Bill, Weeping George	Cowboys	PERCY CHATWIN, HAROLD CASEY, WILLIAM BONNELL, T. E. DOBSON
Godfrey Rideout, a Greenhorn from England		HAROLD HOWES
Lawrence Grantmore, His Romantic Friend		ERNEST SMITH
Phillida Joe		MABEL SENIOR
Ranch Girls, Cowboys, Miners, etc.		CHORUS

THE STATION ORCHESTRA
Conductor JOSEPH LEWIS

Act I. The Exterior of the Cowboys' Home

Act II. A Scene in the Rocky Mountains.

Act I

Opening Chorus	Haste, Sisters
Song and Chorus	"My Horse and Me"
Song and Chorus	You'd Like to Know
Chorus (Male)	[illegible]
Concerted	Come On, Understand Me
Quintette and Chorus	When First You Came
Song	Masons of Cris
Song ..	"Is Love a Pleasant Thing?"
Sextette	"Go Rather in a Way"
Song and Chorus	The World is Dismal
Duet	I Must Quite Admit It
Duet and Chorus	Fresh and Cheeps
Song and Chorus	In Society
Finale and Chorus	Night Deepens

Act II

Introduction.	
Chorus ..	Softly, Softly
Concerted ..	War Dance Song
Song	Little Ark (chorus)
Song	The Sun is High
Duet	[illegible]
Rag	[illegible] Rags
Song and Chorus	When I Come
Song and Chorus	Once in a Castle
Concerted	"Phillida, Mine"
Chorus	"Oh! Rage"
Finale	"Some Day"

10.0 NEWS and WEATHER FORECAST *S.B. from London.*

Royal Horticultural Society Talk. *S.B. from London.*

Mr. QUINTIN WADDINGTON. *S.B. from London.*

Local News.

10.35. THE SAVOY BANDS. *S.B. from London.*

11.30. Close down.

Announcer: C. J. Paterson.

BOURNEMOUTH.

3.45–5.15. Orpheus Singers: Edythe Kineh (Soprano), Sylvia Wundo (Contralto), Albert F. Scully (Tenor); S. Price Stedman (Baritone), T. Trickle (Pianist). Talks to Women: Mrs. George Dance on "Gardening."

5.15–6.15.—CHILDREN'S CORNER.

6.15–6.45. Scholars' Hub Hour: Mrs. Iris Sharpe, M.A., on "Fair Queens of Northern Italy: Venice, Ravenna.

7.0.—NEWS and WEATHER FORECAST *S.B. from London.*

Major C. M. CONNE on "The Origin of the English House."

Local News.

7.30–8.15.—Interval.

8.15 **"Guessing Competition Night."**

In this Programme from 8.30 to 9.30 the Orchestra will play certain pieces, test by try we know [illegible]. Vocalists will sing, but in no case will the Item or Singer be announced. Listeners are invited to write in giving the names of the performers and the titles and composers' names of the pieces which they think they recognise. Three Prizes will be awarded for the most accurate postcard. Please mark communications — Guessing Competition "The British Broadcasting Company, Ltd., 72, Holdenhurst Road, Bournemouth. Closing date, July 30th.

Two Duologues.

9.20 HISTORY REPEATS ITSELF"
Dawson Millward
General Sir Rupert Kenneth, K.C.B. GEORGE STONE
Adela Kenneth (His Daughter) LILIAN EDWARDS
Scene—The Drawing-room of Sir Rupert's house in London.

PARENTS
Dawson Millward
Mrs. Tyrell A Widow LILIAN EDWARDS
Major Prior (A Widower) GEORGE STONE
Scene—A Room in Mrs. Tyrell's House.

10.0. NEWS and WEATHER FORECAST *S.B. from London.*

Royal Horticultural Society Talk. *S.B. from London.*

Mr. QUINTIN WADDINGTON. *S.B. from London.*

Local News.

10.35.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.

Announcer: John H. Raymond.

CARDIFF.

3.0–4.0. Falkman and his Orchestra, relayed from the Capitol Cinema.

6.0–6.45. "SWAS" "FIVE O'CLOCKS." The Station Orchestra. Talks to Women. Weather Forecast.

6.45 (6.30)–6.45. The Romance of Amusement (Stories in the Lives of Great Artists, Duke and the Book of Job.'

7.0. NEWS and WEATHER FORECAST *S.B. from London.*

Miss ELEANOR A. ARMFELT, F.L.S., Member of the Botanical Exchange Club of the British Isles, on "Flowers of the Week."

Local News.

7.30–8.0. [illegible].

THE STATION ORCHESTRA

8.0. Vocalist: DOROTHY CLARK (Soprano).
Orchestra.

I. Suite "Children's Corner" *Debussy*
II. Songs
"The Blackbird Fare"
[illegible] *Williams* (1)
Song of the Blackbird
"Autumn Evening" *Quilter* (1)
"Love's Philosophy"
III. "Morris Dance Tunes" arr. *Holst* (1).
V.—Dr. JAS. J. SIMPSON, M.A., D.Sc., on "Romances of Natural History."
Orchestra.
V. Overture, "The Merry Wives of Windsor" *Nicolai*
VI. Songs
"Song of the Open" *Frank La Forge*
"Cuckoo" *Martin Shaw* (14)
"Lullaby" *F. Keel* (14)
O Could I but Express in Song *Tchaikovsky*

Miscellaneous Programme.

CHAYD N COFFIN.
Items from the repertoire.
JOHN HENRY
still going strong.

10.0. NEWS and WEATHER FORECAST *S.B. from London.*

Royal Horticultural Society Talk. *S.B. from London.*

Mr. QUINTIN WADDINGTON. *S.B. from London.*

Local News.

10.35.—THE SAVOY BANDS. *S.B. from London.*

11.30.—Close down.

Announcer: W. N. Settle.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—WEDNESDAY (Continued from the facing page.)

The letters S.B. printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

MANCHESTER.

2.30–3.0.—MAINLY FEMININE: Modern Fanny Brown on "Some Interesting Towns in Belgium—(2) Antwerp."
3.15–4.0. } THE LUTON RED CROSS PRIZE
4.0–5.0. } BAND, relayed from the Municipal Gardens, Southport. (Conductor, F. MORTIMER.)
5.45–6.0.—Children's Letters.
6.0–6.30.—CHILDREN'S CORNER.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. B. T. J. GLOVER, M.B., Ch.B., D.P.H., on "Photography: How to Begin Developing."
Local News.
7.20–8.0.—Interval.
8.0. **Request Programme.**
THE "OZY" ORCHESTRA.
MAURICE COLE (Solo Pianoforte).
J. BAMFORD NEWTON (Baritone).
Orchestra.
March, "The Mighty" ..... *Alford*
Intermezzo ..... *Coleridge-Taylor*
Selection, "The Earl and the Girl" ..... *Caryll*
J. Bamford Newton.
"In Summer Time on Bredon" ..... *Graham Peel*
Song ..... *Arthur Meale* (5)
Maurice Cole.
Polonaise in C Sharp Minor ..... *Chopin*
Ballade in G Minor ..... *Chopin*
Orchestra.
Waltz, "Ravissante" ..... *Godin*
Selection, "My Lady Molly" ..... *Jones*
"The Fairies' Glen" ..... *Pitt* (1)
Three Dances from "Hello America" ..... *Finck*
J. Bamford Newton.
"Song of the Waggoner" ..... *Breville Smith*
"If Winter Comes" ..... *H. M. Tennant*
Maurice Cole.
"Hark, Hark, the Lark" ..... *Schubert-Liszt*
Andante and Capriccioso ..... *Mendelssohn*
"Island Spell" ..... *J. Ireland*
Orchestra.
Selection, "A Princess of Kensington" ..... *German*
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Royal Horticultural Society Talk. *S.B. from London.*
Mr. QUINTIN WADDINGTON. *S.B. from London.*
Local News.
10.35.—THE SAVOY BANDS. *S.B. from London.*
11.30.—Close down.
Announcer: H. B. Brettin.

NEWCASTLE.

3.45.—Concert. The Station Light Orchestra. Conductor, William A. Crosse.
4.45–5.15. WOMEN'S HALF HOUR. P. Bontaron on "My Holidays in Inland Water Ways."
5.15–6.0.—CHILDREN'S CORNER.
6.0–6.30.—Schroars' Half Hour. E. J. Williams, B.Sc., on "The Romance of Coal Gas—Part I.: Its Origin."
6.35–6.50. Farmers' Corner. Professor Gilchrist: Seasonable Notes.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. J. L. GIBSON: French Talk.
Local News.
7.20–8.0. Interval.
Operatic and Folk Song Evening.
8.0. THE STATION ORCHESTRA.
Conductor, WILLIAM A. CROSSE.
Overture, "Martha" ..... *Flotow*
8.15. NORA DELMARR (Soprano).
"Nobil Signor" ..... *Meyerbeer*
"Le Nozze di Figaro" ..... *Mozart*
Aubade, "Le Roi d'Ys" ..... *Lalo*
Orchestra.
"La Reine de Saba" ..... *Gounod*
Nora Delmarr.
"Voi che sapete Deh Vieni" ..... ("Figaro") *Mozart* (11)
"Elsa's Dream" ("Lohengrin") *Wagner* (11)
Orchestra.
Excerpts from "Carmen" ..... *Bizet*
9.0.—GEORGE and YEAMAN DODDS (Folk Song Recital).
Duet—
"The Frog and the Mouse":
(a) *Traditional*, (b) *Arranged Sharp* (3);
(c) *Arranged Sharp* (11).
"The Golden Vanity" ..... *arr. Gordon*
Scottish.
"An Island Sheiling Song" ..... *arr. Kennedy-Fraser* (1,
Pipe o' Dundee ..... *Traditional*
Pianoforte Solo.
"Shepherd's Hey"
"Knight and Shepherd's Daughter" } ..... *arr. Grainger*
"Molly on the Shore" }
Irish.
"Colleen Bawn" ..... *Traditional*
"A Ballynure Ballad" ..... *arr. Hughes* (1)
Welsh.
"Hunting the Hare" ..... *arr. Somervell* (1)
Northumbrian.
"The Water of the Tyne" }
"Captain Bover" } ..... *arr. Whittaker* (2)
10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Royal Horticultural Society Talk. *S.B. from London.*
Mr. QUINTIN WADDINGTON. *S.B. from London.*
Local News.
10.35.—THE SAVOY BANDS. *S.B. from London.*
11.30.—Close down.
Announcer: W. M. Shewen.

ABERDEEN.

3.30–5.0. Instrumental Solo Afternoon. William Bennett and Minnie Mutch. William McConnachie and Arthur Pirie. Andrew Watson, Maria Sutherland, Burnett Farquhar. Feminine Topics.
6.0–6.30. CHILDREN'S CORNER.
7.0. NEWS and WEATHER FORECAST. *S.B. from London.*
THEODORE RUETE. *S.B. from London.*
Local News.
7.30–8.0. Interval.
8.0. CHARLES DAVIDSON, M.A., of Aberdeen University: Seventh Lecture on Spanish.
Light Programme.
QUENTIN ARTHUR (Soprano).
PITT AND MARKS (Entertainers).
MRS. SHAND'S DANCE ORCHESTRA.
Orchestra.
Grand March, "Bird's Farewell to Gibraltar" ..... *arr. Volti*
Serenade, "The Duchess's Slipper" ..... *Gioardo*
Reel, "Marquis of Tullibardine" ..... *Marr*
Waltz, "Lovely Lucerne" ..... *Godfrey* (7)
8.45. Quentin Arthur.
"Come, Sweet Morning" ..... *A. T.* (6)
"The Lass with the Delicate Air" ..... *A. L.*
Orchestra.
Pas de Quatre ..... *Lutz*
Flowers of Edinburgh: Selected ..... *Kerr*
Highland Schottische: "Francis Setwell" ..... *Lowe*
9.10. Pitt and Marks.
"Duets Up-to-Date."
9.20. Orchestra.
Quadrilles, "Gathering of the Clans" ..... *Kellaway* (7)
"Rory O'More Irish Airs" ..... *Kerr*
9.35. Quentin Arthur.
"The Echo Song" ..... *Fevert*
"Baby Clover" ..... *Italy*
9.45. Pitt and Marks.
"Duets Topical and Tropical."
10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Royal Horticultural Society Talk. *S.B. from London.*
MR. QUINTIN WADDINGTON. *S.B. from London.*
Local News.
10.35.—THE SAVOY BANDS. *S.B. from London.*
11.30.—Close down.
Announcer: A. M. Shannis.

CARDIFF.

3.30–4.30. Popular Afternoon by the Wireless Quartette and Garvie Boyes (Baritone).
4.45–5.15. TOPICS FOR WOMEN. Music and Gossip.
5.15–6.0. CHILDREN'S CORNER: Singing Grannies from Scotland will sing "Charlie is My Darling," "Caller Herrin'," "Ye Banks and Braes," "Wi' a Hundred Pipers."
6.0–6.5.—Weather Forecast for Farmers.
6.5–6.15.—Weekly Morse Code Lesson by Uncle Leslie.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
THEODORE RUETE. *S.B. from London.*
Local News.
7.30–8.0. Interval.
"He ne'er is crowned with immortality, who fears to follow where any voices lead."
Keats.
WALTER HYDE (Tenor).
HAROLD WILLIAMS (Baritone).
THE STATION ORCHESTRA.
Conducted by ISAAC LOSOWSKY.
8.0. Orchestra.
Overture, "Marco Spada" ..... *Auber*
8.10. Walter Hyde.
Lohengrin's Farewell" ..... *Wagner* (1)
"Spring Song" ("The Valkyrie") *Wagner*
(With Orchestral Accompaniment.)
8.20. Orchestra.
Selection, "Manon" ..... *Massenet-Tavan*
8.30. Harold Williams.
"The Happy Lover"
"The Pretty Creature" } ..... *Lane Wilson* (1,
"When Dull Care" ...
8.40. Orchestra.
"The Witches' Ride" ("Hänsel and Gretel") ..... *Humperdinck*
8.50. Walter Hyde.
"The Erl King" ..... *Schubert*
"Where'er You Walk" ..... *Handel* (11)
(With Orchestral Accompaniment.)
9.0. Orchestra.
Suite, Pergolesi ..... *Debussy*
9.10. Harold Williams.
"The Southdown Shepherd" *J. Allwyn* (5)
"When You Come to Me" } ("A Gipsy Trail")
"The Lover" ..... } *Easthope Martin* (5)
9.20. Orchestra.
Entr'acte, "In a Chinese Temple Garden" ..... *Ketelbey*
9.30. Walter Hyde.
"A Dream" ... }
"I Love But Thee" } ..... *Grieg*
9.40. Orchestra.
Marcha Militaire" ..... *Schubert*
9.47. Harold Williams.
"O Star of Eve" ("Tannhäuser") *Wagner* (11)
"Non più Andrai" ("Figaro") *Mozart* (11)
(With Orchestral Accompaniment.)
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Royal Horticultural Society Talk. *S.B. from London.*
MR. QUINTIN WADDINGTON. *S.B. from London.*
Local News.
10.35.—THE SAVOY BANDS. *S.B. from London.*
11.30.—Close down.
Announcer: Lieut.-Col. A. Cheetham.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—THURSDAY (July 24th.)

The letters S.B. printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

LONDON.

1.0–2.0.—Time Signal from Big Ben. The Week's Concert of New Gramophone Records.

4.0–5.0.—Time Signal from Greenwich. Concert. The 2LO Trio. "A Talk on Fashions," by Nora Standon. Eva Nesbit (Mezzo-Soprano). "Are Marriage Settlements Wise for People of Moderate Means?" by a Barrister-at-Law.

6.0–6.45.—CHILDREN'S CORNER. Stories by Miss Nobody Special. Auntie Hilda at the Piano. A Trip Round the World. "Madeira." L. G. M. of the *Daily Mail* on "The Zoo at School."

7.0.—TIME SIGNAL FROM BIG BEN. 1ST GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

PERCY SCHOLES (the B.B.C. Music Critic), "The Fortnight's Music." *S.B. to all Stations.*

Talk by the Radio Society of Great Britain. *S.B. to all Stations.* Local News.

7.35–8.0.—Interval.

"A Night With the Old Masters."

NORMAN ALLIN (Bass).
HAROLD SAMUEL (Solo Pianoforte).
THE AUGMENTED WIRELESS ORCHESTRA.
Conducted by DAN GODFREY, Junr.

8.0.—March, "Cornelius" ... *Mendelssohn*
Overture, "Leonore," No. 3 ... *Beethoven*
Minuet Berenice" ... *Handel*

Bass Songs.

"O, Isis and Osiris" ("The Magic Flute") ... *Mozart*
"Within This Hallowed Dwelling" ("The Magic Flute") ... *Mozart*

The Orchestra.

Variations on the Austrian Hymn ... *Haydn*
Concerto for Piano and Orchestra, No. 4 ... *Beethoven*
Solo Piano ...
Songs ...
Finale ...

9.30.—TIME SIGNAL FROM GREENWICH. 2ND GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

Mr. A. LLOYD JAMES, Lecturer on Phonetics, University of London. "Some Facts Concerning Speech." *S.B. to all Stations.* Local News.

9.50. The Orchestra.

Overture, "Arcadie" ...
Ballet Song ...
"When a Maiden Takes Your Fancy" ("The Seraglio") ...
The Orchestra.

Overture, "Academic Festival" ...

11.0.—Close down.

Announcer, J. G. Broadbent.

[illegible]

3.30. [illegible] Directed by Frank Cantell. Dorothy [illegible]

5.0–5.30.—WOMEN'S CORNER: Emily Broughton (Soprano). Recital of Irish Songs.

5.30–5.35.—Agricultural Weather Forecast.

5.35–6.30.—CHILDREN'S CORNER.

6.30–6.45.—"Teens' Corner. Mabel France on "School Days."

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

PERCY SCHOLES. *S.B. from London.*

Radio Society Talk. *S.B. from London.*

Local News.

7.30–8.0.—Interval.

Play Night.

8.0. THE STATION COMPANY OF PLAYERS, under the direction of WILLIAM MACREADY.

"THE MERCHANT OF VENICE."
Shakespeare.

Antonio (The Merchant of Venice) ... LEONARD THACKERAY
Salarino } (Friends to Antonio) ... DONALD POWIS
Salanio } ... A. E. ROWE
Bassanio ... [illegible]
[illegible] ... [illegible]
Portia (A Rich Heir) ... [illegible]
... DONA GODFREY TURNER
Nerissa (Her Waiting Maid) ... ETHEL MALEAN
Shylock (A Jew) ... WILLIAM MACREADY
Launcelot Gobbo (Servant to Shylock) ... PERCY EDGAR
Old Gobbo (Father to Launcelot) ... HERBERT BOSWORTH
Jessica (Daughter to Shylock) ... ETHEL JOHNSON
The Prince of M[illegible] ... LEONARD THACKERAY
Tubal (A Jew) ... FRANK V. PENN
The Duke of Venice ... HAROLD THOMAS
Incidental Music by the STATION ORCHESTRA.

N.B.—The Characters are given in the order of appearance.

Act I.
Scenes 1, 3 and 5 ... A Street in Venice.
Scenes 2, 4 and 6 ... Portia's House at Belmont.

Act II.
Scene 1 ... A Street in Venice.
Scene 2 ... Portia's House at Belmont.

Act III.
Scene 1 ... Venice. A Court of Justice.
Scene 2 ... Portia's Garden, Belmont.

10.0. NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. A. LLOYD JAMES. *S.B. from London.*

Local News.

10.30. "THE MERCHANT OF VENICE" (continued).

11.0. Close down.

Announcer, C. J. Paterson.

[illegible]

3.45–5.15.—The "QRM" Trio: Reginald S. Mount (Violin), Thomas Hengwort (Cello), Arthur Marston (Pianoforte). [illegible] Peirce (Mezzo-Soprano), E. [illegible] Rowland (Solo Pianoforte). Trio. [illegible]. Miss Austen Leigh on Current [illegible] Contemporary Literature.

5.15–6.15. CHILDREN'S CORNER.

6.15–6.45. Sea-dars' Half Hour. E. C. Low: The Literary History of Hong [illegible].

7.0. [illegible] and WEATHER FORECAST. *S.B. from London.*

PERCY SCHOLES. *S.B. from London.*

Radio Society Talk. *S.B. from London.*

[illegible]

10.30. [illegible]

Military Band Night.

BAND OF H.M. ROYAL AIR FORCE (Portsmouth).

Relayed from South Parade Pier, Southsea.

JOHN HENRY and BLOSSOM.

8.0. Band.

9.0. John Henry and Blossom will entertain.

9.10. Band.

9.45. John Henry and Blossom again.

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. A. LLOYD JAMES. *S.B. from London.*

Local News.

10.30. THE ROYAL BATH HOTEL DANCE ORCHESTRA, relayed from King's Hall Rooms. Musical Director, DAVID S. LIFF.

12.0.—Close down.

Announcer, John H. Raymond.

[illegible]

3.0–4.0.—The Station Trio. V. Olive Williams (Soprano).

4.0–4.45.—The Carlton Orchestra, relayed from the Carlton Restaurant.

5.0–5.45.—"SWAS." "FIVE O'CLOCKS": Mr. Isaac J. Williams, Keeper of Art, The National Museum of Wales. Cassie Richards (Soprano), G. Howell Mezzo-Soprano). Weather Forecast.

5.45–6.30. CHILDREN'S CORNER.

6.30–6.45.—"How to Speak Welsh" (V.), by Mr. Huw J. Huws. (Alternate week [illegible].

7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*

PERCY SCHOLES. *S.B. from London.*

Radio Society Talk. *S.B. from London.*

Local News.

7.30–8.0.—Interval.

An Evening of Plays.

[illegible] are Directed by E. R. A. [illegible]

8.0. "A PEARLAND WAKES." A One Act Play by Gwen John.

Let from the stream-mist of Arberon
[illegible] have brought back to thee
[illegible] for lum shadowy bowers of
[illegible] now, dear Adonis, and pro-
[illegible]
Dear to us has thine advent been, Adonis,
And dear shall it be when thou comest [illegible]

Old Woman ... KATE SAWLE
Nellie ... EDITH LESTER JONES
Mrs. Garlow ... GLADYS MORGAN
Nellie's Father ... DAVID TORRINGTON
Old Rhona ... BETTY MILES
A Mother ... BEATTY LINDSAY
[illegible] ... ROGER MOSTYN

A quiet spot on the street. People have collected to see the Morris dancing. Whilst they wait the girls dance. Men and boys [illegible] way [illegible] up for the [illegible]
[illegible] wear flowers [illegible]
[illegible]
[illegible] between have [illegible] or twisted [illegible] or a week to prepare for the great [illegible] I now see all crimps and curls [illegible] in their [illegible] wear coloured silk neck-band [illegible] of blues and purples. There [illegible]
[illegible]
[illegible] The Morris is a [illegible]

BABEL.

A Tragedy (Five Scenes and [illegible]).
By John Redwood [illegible].
Translated to Lancelot Aberconway.

Nimrod, King of Babylon ... HERBERT CARTER
Noegua, High Priest ... FREDERICK CLIFFE
Apil-Sin (an Astrologer) ... FRANK NICHOLLS
Manishtusu (Captain of the Host) ... GEORGE BOUVERIE
Sir Magar (Architect of the Tower) ... RICHARD BARRON
Abraham ... JOHN MORGAN
Nimrod's ... EDITH LESTER JONES
Lula ... GRACE HANCOCK

Supported by the GWENT PLAYERS.
Men, Women, Workmen, etc.
Time and Place: Mythical Babylon.

10.0. NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. A. LLOYD JAMES. *S.B. from London.*

Local News.

10.30.—Close down.

Announcer: C. H. King.

A number opposite a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—THURSDAY

(Continued from the facing page.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

MANCHESTER.

11.30–12.30.—Concert by the "2ZY" Quartette.
5.10–5.40.—MAINLY FEMININE: Miss Fitzgerald on "Labour-Saving Houses."
5.45–6.0.—Children's Letters.
6.0–6.30.—CHILDREN'S CORNER.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
PERCY SCHOLES. *S.B. from London.*
Radio Society Talk. *S.B. from London.*
Local News.
7.30.—Mr. W. F. BLETCHER: Examiner in Spanish to the Central Spanish Talk.
7.50–8.0.—Interval.
8.0. **The Manchester City Police Band.**
Conductor: E. WORMALD.
NORA DELMARR (Soprano).
Band.
March, "The King's Guard" ..... *Keith*
Overture, "William Tell" ..... *Rossini* (2)
Selection, "Samson and Delilah" ..... *Saint-Saens*
Nora Delmarr.
Serenade } ..... *Schubert* (1)
"There is My Heart" }
Band.
Duet for Two Cornets, "Two Finches" ..... *King*
Intermezzo, "On the Road to Moscow" ..... *Lotz* (1)
Finale, First Act, "The Magic Flute" ..... *Mozart* (1)
Nora Delmarr.
"Non la Sospiri" }
"They Call Me Mimi" } ..... *Puccini*
Band.
Suite, "Dwellers in the Western World" ..... *Scott*
"Musical Bouquet" ..... *Gassner* (1)
Turkish Intermezzo, "On the Bosphorus" ..... *Lincke*
Selection, "Carmen" ..... *Bizet*
"Masken Polonaise" ..... *Faust* (1)
10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. A. LLOYD JAMES. *S.B. from London.*
Local News.
10.30. Band.
"A Hunting Scene" ..... *Bucalossi*
Highland Patrol, "The Wee Macgregor" ..... *Amers*
10.45.—Close down.
Announcer: Victor Smythe.

NEWCASTLE.

3.45–4.45.—Concert: William A. Crosse (Solo Pianoforte), Edward Bird (Baritone), Bele Davidson (Solo Violin).
4.45–5.15.—WOMEN'S HALF HOUR: James Herdman, "Breton Folk Tales."
5.15–6.0.—CHILDREN'S CORNER.
6.0–6.30.—Schools Half Hour: J. C. Wilson, D.Sc., "Legends of the Borders," Part 4.
6.30–6.35.—Boy Scouts' News.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
PERCY SCHOLES. *S.B. from London.*
Radio Society Talk. *S.B. from London.*
Local News.
7.30–8.0.—Interval.
Italian Evening.
IDA COWEY (Soprano).
WALTER HYDE (Tenor).
HAROLD WILLIAMS (Baritone).
THE STATION ORCHESTRA.
Conductor, WILLIAM A. CROSSE.
8.0. Orchestra.
Overture, "William Tell."
Harold Williams.
Recit., "Che mai vegg'io" } ..... *Verdi*
Cavatina, "Infelice e tuo credevi" } *Il Trovatore*
"Non più andrai" ("Figaro") ..... *Mozart*
Ida Cowey.
Recit., "Ah, Prence."
Aria, "Nacqui all'affanno al pianto."
Aria, "Selva Opaca."
Orchestra.
Selection, "Cavaleria Rusticana" ..... *Mascagni*
Walter Hyde.
Recitative, "Ingiusto! Il che tramate questo" } ..... *Ah Te Verdi* (1)
Romanza, "Oh, dolore Fea te diver" } .....
Orchestra.
"La Traviata" ..... *Verdi*
Harold Williams.
Recitative, "O mio padre" } ..... *Verdi*
Aria, "O, tu Palermo" ..... }
Ida Cowey.
Aria, "Una voce poco fa" ..... *Rossini*
"La Danza" (Tarantella Napolitana) ..... *Rossini*
Walter Hyde.
"Una furtiva lagrima" ..... *Donizetti* (1)
"Una aura amorosa," ("Così fan tutte") ..... *Mozart* (11)
Orchestra.
Overture, "La Gazza Ladra" ..... *Rossini*
10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. A. LLOYD JAMES. *S.B. from London.*
Local News.
10.30. Orchestra.
Overture, "The Barber of Seville" ..... *Rossini*
10.45. Close down.
Announcer: W. M. Shewon.

ABERDEEN.

3.30–5.0.—Popular Afternoon: The Wireless Quartette. Feminine Topics. Annie D[illegible] (Mezzo-Soprano).
6.0–6.30.—CHILDREN'S CORNER: Stories and Poems from the Kiddies.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
PERCY SCHOLES. *S.B. from London.*
Radio Society Talk. *S.B. from London.*
Local News.
7.30–8.0.—Interval.
8.0.—Boys' Brigade News Bulletin.
Concert Programme.
GEORGE BOYD (Baritone).
MAURICE COLE (Solo Pianoforte).
THE WIRELESS ORCHESTRA.
Overtures by Beethoven.
8.30. Orchestra.
Leonore," Nos. 1, 2 and 3 ..... *Beethoven*
8.45. George Boyd.
"I am a Roamer" ("Son and Stranger") ..... *Mendelssohn* (15)
"The Pilgrim's Song" ..... *Tchaikovsky*
8.55. Maurice Cole.
Nocturne in E Flat, No. 2 } .....*Chopin*
Scherzo in C Sharp Minor }
9.5. Orchestra.
"Egmont" ..... *Beethoven*

KEY LIST OF MUSIC PUBLISHERS.

1 Boosey and Co.
2 Carwen J., and Sons Ltd.
3 Herman Darewski Music Publishing Co.
4 Enoch and Co. Ltd.
5 Enoch and Sons.
6 Feldman, B., and Co.
7 Francis, Day and Hunter.
8 Larway J. H.
9 Lawrence Wright Music Co.
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9.20. Orchestra.
"Oh! Oh! Hear the Wild Winds Blow" ..... *Mattei*
Hear Me, Ye Winds and Waves" ..... *Handel* (1)
9.30. Maurice Cole.
Prelude, Sarabande and Toccata. ..... *Debussy*
9.40. Orchestra.
Kerry Slow Air } ..... *Bantock*
Dance Tune }
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. A. LLOYD JAMES. *S.B. from London.*
Local News.
10.30. Maurice Cole.
Irish Reel } ..... *Ireland*
"Barney Wild Brooks" }
"Ragamuffin" ..... *Farnon* (1)
10.40. George Boyd.
Farewell ..... *Parker* (1)
Terpander's Song ..... *Bach*
10.50. Orchestra.
Coronation ..... *Beethoven*
11.5.—Close down.
Announcer: W. D. Simpson.

GLASGOW.

3.30–4.30.—Request Afternoon. The Wireless Quartette and Alexander Richard (Bass).
4.45–5.15.—TOPICS FOR WOMEN. Readings by Chats, Mary London on "Beauty Culture."
5.15–6.0.—CHILDREN'S CORNER.
6.0–6.5.—Weather Forecast for Farmers.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
PERCY SCHOLES. *S.B. from London.*
Radio Society Talk. *S.B. from London.*
Local News.
7.30–8.0.—Interval.
Request Night.
"Sweetest melodies are those that are by distance made more sweet."—Wordsworth.
CATHERINE PATERSON (Mezzo-Contralto).
ROBERT PITT and LANGTON MARKS (Entertainers).
THE STATION ORCHESTRA.
Conducted by ISAAC LOSOWSKY.
8.0.—Dr. R. F. PATTERSON on "Elizabethan Drama."
8.15. Orchestra.
Overture, "Don Giovanni" ..... *Mozart*
Selection, "Il Trovatore" ..... *Verdi-Tavan*
8.40. Catherine Paterson.
"O Love, from Thy Power" ..... *Saint-Saens*
(With Orchestral Accompaniment.)
"It Was a Lover and His Lass" ..... *R. Quilter* (1)
8.50. Orchestra.
Entr'acte, "Meditation" ..... *Clifford*
9.0. Robert Pitt and Langton Marks.
"Duets Up-to-Date."
9.15. Orchestra.
Suite, "Fantastique" ..... *Foulds*
Last movement Selection made from Mi[illegible] d'Harleq[illegible] ..... *Rizzio*
March, "Admirals All" ..... *Bath*
9.35. Catherine Paterson.
Harris Love Lament" ..... } *Kennedy*
In Hebrid Seas" ..... } *Fraser* (1)
"Belindean Mother's Song" }
9.45. Robert Pitt and Langton Marks.
Duets Topical and Tropical.
10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. A. LLOYD JAMES. *S.B. from London.*
Local News.
10.30. Catherine Paterson.
Cockle Shells } ..... *Traditional*
Skye Boat Song }
10.40. Orchestra.
Dance Items.
Fox trots, "Dancing Dan" (6); Fox-trot, How Can you Tell a Winkle?"; Waltz, "Zuyder Zee"; Fox trot, "Tweet-Tweet" (7); One-step, "Cheerio."
11.0.—Close down.
Announcers: Mungo M. Dewar.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on this page.

WIRELESS PROGRAMME—FRIDAY (July 25th.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

1.0–2.0.—Time Signal from Big Ben. Concert. The Wireless Trio and Leslie Pain (Tenor).

4.0–5.0.—Time Signal from Greenwich. Concert. Artist to be a London Flower Girl interviewed in the Studio." Winifred Garnett (Contralto). Great Romances: "The Story of Marie Antoinette and Count Fersen." Organ Music relayed from Shepherd's Bush Pavilion.

6.0–6.45.—CHILDREN'S CORNER. Piano Solo by Uncle Syncp. "Whisker Magic," by Muriel Marlowe. "Wind Flowers," by Dawn Mooney, from "The Merry Go Round," told by Rose Fyleman. "Treasure Island," Chap. 23, Part 2, by Robert Louis Stevenson. Uncle Jack Frost's Wireless Yarn.

7.0 TIME SIGNAL FROM BIG BEN 1ST GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

L. M. PARSONS, D.Sc., F.G.S., on "Earthquakes." *S.B. to other Stations.*

Local News.

7.30–8.0. Interval.

A Variety Bill.

MARJORIE BOOTH (Contralto)
GEOFFREY PIZZEY (Baritone)
RAY WALLACE
HELENA MILLAIS
RONALD GOURLEY
A Variety Bill.
RADIO RUFUS.
TWO MUSICIANS from the SAVOY HOTEL.
THE AMBOYNA BANJO QUARTETTE.

8.0. The Savoy Musicians
Open the Programme.

Helena Millais
in "Songs and Fragments from Life."
Baritone Songs.

'In Summertime on Bredon" ..... *Graham Peel*
"Sea Fever" ..... *John Ireland*

Banjo Quartette.

"At a Georgia Camp Meeting" ..... *Kerry Mills*
"Columbian March" ..... *Paul Eno*

Contralto Songs.

"Danny Boy" ..... *Fred Weatherly* (1)
"Why?" ..... *Frank Lambert* (2)

9.0. Ray Wallace
in Character Impressions.

Introduces himself at "21.0."

9.5. More Syncopation by the Savoy Musicians.

Ronald Gourley
Blind Pianist, Entertainer, and Soloist.

9.15. Ray Wallace
in Character Impressions.

Banjo Quartette.

"A Spanish Romance" ..... *Trad. Arr. Morley*
"Love's Last Lay" ..... *Morley*

Baritone Songs.

"Cease, O Maiden" ..... *Scarlatti* (1)
"The Showman" ..... *James*

10.0 TIME SIGNAL FROM GREENWICH 2ND GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*

Topical Talk.

Local News.

10.30 A VARIETY BILL
(Continued).

Contralto Songs.

"Forethought" ..... *Frank Lambert*
"I Can't Remember" ..... *Alwyn Worley* (1)

Ronald Gourley
Helena Millais in more Songs and Fragments.

Banjo Quartette.

"Nigger Town" ..... *Morley*
"Sweet Jasmine" ..... *Oakley and Hall*

11.0.—Close down.

Announcer: J. S. Dodgson.

BIRMINGHAM.

3.30–4.30.—Lozells Picture House Orchestra, Directed by Paul Rimmer.

5.0–5.30.—WOMEN'S CORNER. R. Macdonald Ladell on "Some Facts and Theories concerning Dreams."

5.30–5.35.—Agricultural Weather Forecast.
5.35–6.30.—CHILDREN'S CORNER.
6.30–6.45.—"Teens" Corner: Captain Cuttle on Cruisers.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
G. F. J. BUNNINGTON ("Chats for Poultry Talk, "Breeds of Poultry for Pleasure and Profit."
Local News.
8.0 (Approx.)

Request Night.

8.0. THE STATION ORCHESTRA
Selected Request Items.

8.30 NORA DELMARR (Soprano)
"Ouvre tes Yeux Bleus" ..... *Massenet*
"Elegie"
"Air de Lia" ("L'Enfant Prodigue") ..... *Debussy*

8.45. Orchestra.
Selected Request Items.

9.15. News Bulletin.
Sports News.
"Evening Song" ..... *Bunning*
"When a Lark" ..... *Clutsam*
"Starry Woods" ..... *Phillips*

9.30. Orchestra.
Selected Request Items.

10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Topical Talk.
Local News.

10.30. Orchestra.
Selected Request Items.

11.0. Close down.
Announcer: C. J. Paterson.

BOURNEMOUTH

4.45–5.15. Ethel Rowland (Solo Pianoforte).
THE ROYAL BATH HOTEL DANCE ORCHESTRA, relayed from King's Hall Rooms. (Musical Director, DAVID S. CLIFF.) Talks to Women: Annie Grey on "Invalid Cookery."

5.15–6.15.—CHILDREN'S CORNER.

6.15–6.45. Scholars' Half Hour. H. J. Banning, "Rambles of an Entomologist."

7.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Hindu Story, "Two Portraits," specially translated from the Sanskrit by S. M. MITRA, M.R.A.S.
Local News.

7.30–8.30.—Interval.

Symphony Concert.

THE WEST SUBURBAN MEN'S CHORUS
ORCHESTRA
Conducted by L. STANTON JEFFERIES.
VIVIENNE CHATTERTON (Soprano).
REGINALD RENISON (Age 16) (Solo Pianoforte).

8.30 Orchestra.
Prelude, "The Mastersingers" ... *Wagner*

8.40.—Concerto in G. Minor for Pianoforte and Orchestra ..... *Saint Saens*

9.10. Vivienne Chatterton.
Aria, "Phaedra" ..... *Maurice Bealy*

9.20 Orchestra.
Symphony in F Minor ("The Irish") ..... *Stanford*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Topical Talk.
Local News.

10.30. Vivienne Chatterton.
"Five Eyes" ..... *Armstrong-Gibbs*
"The House of Clouds" ..... *Stanton Jefferies*
(First Performance.)
"Love's Philosophy" ..... *Quilter* (1)

10.40. Orchestra.
Suite, "Sigurd Jorsalfar" ..... *Grieg*

11.0.—Close down.
Announcer: John H. Raymond.

BOURNEMOUTH B

3.0–4.0. The Casani Club Orchestra, relayed from the Casani Cinema.

5.0–5.45.—"WAR" "FIVE O'CLOCKS." The Station Orchestra. Talk to Women: Weather Forecast.

5.45–6.30. CHILDREN'S CORNER.

6.30–6.45. The Romance of Achievement: Studies in the Lives of [illegible] Turner, Magnate of Light.

7.0. NEWS and WEATHER FORECAST. *S.B. from London.*

Mr. IVAN JONES, F.R.A.S., on "Astronomy."

Local News.

7.30–8.0. Interval.

Choral Night

THE CAERPHILLY MALE VOICE PARTY.
PERCY HEYNER (Baritone).
IVOR JENKINS (Solo Harp).
THE STATION ORCHESTRA.

8.0 Orchestra:
Selection, "In a Persian Garden" ..... *Lehmann*

Part Songs.

"Come, Merry Comrades All" ..... *Foster*
"Festal Serenade" ..... *Rea*
"On the Ramparts" ..... *Arr. Somervell*

Harp Solo.

"The Greek Pirates' Chorus" ..... *P. Alwyn* (1)
"Galop de Concert" ..... *E. Elsasser*

Song.

"A Mood" ..... *Alma Tenetra* (1)
"Thou Canst Not Leave Me To Rest" ..... *Peter Warlock*
"Good Ale" ..... *Peter Warlock*

Orchestra:
"Schon Rosmarin" ..... *Kreisler*
"Serenata" ..... *Moszkowski*
"Penelope's Garden" ..... *Trad.*

Part Songs.

"Tyrolese Hunters' March" ..... *Trad.*
"Songs for Life" ..... *Pearsons*
"The Angelic Husband" ..... *Oakley*

Harp Solo.

"Home, Sweet Home" (with Variations) ..... *Trad.*

Solo with Imitations of the Euphonium and Banjo ..... *Elsworth*

Song.

"The Golden Vanity" ..... *Traditional*
"The Last Fairing" ..... *Easthope Martin* (3)
"Song of the Flea" ..... *Moussorgsky*

Orchestra:
"[illegible]" ..... *Ivanovici*
"Valse Lyrique" ..... *Sibelius*

Part Song.

"Sweet Sixteen" ..... *Oakley*
"Three Welsh Airs" ..... *Rhandirmwyn Rachel*
"Evening and Morning" ..... *Oakley*

10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Topical Talk.
Local News.

10.30.—Close down.
Announcer: C. H. K[illegible].

MANCHESTER

1.30–2.30. Mid-day Music relayed from the Piccadilly Picture Theatre.

2.30–3.0.—MAINLY FEMININE. Florence Hepson (Soprano).

3.30–4.30. Concert by the 2ZY Quartette.

4.45–6.0. Children's Letters.

6.0–6.30.—CHILDREN'S CORNER.

7.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Dr. L. M. PARSONS. *S.B. from London.*
Local News.

7.30–8.0.—Interval.

8.0. **Grand Orchestral Concert.**

by
THE "2ZY" AUGMENTED ORCHESTRA
Conducted by T. H. MORRISON.
WALTER HYLE
BELLA REDFORD (Soprano).
HAROLD WILLIAMS (Baritone).
Orchestra:
[illegible] The Nutcracker Suite ..... *Tschaikowsky*
Selection from ballet "La Source" ..... *Delibes*

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—FRIDAY (Continued from the facing page.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

8.30. Bella Redford.
Aria, "Adieu, Forêts" ["Jeanne d'Arc"] *Tschaikowsky*
(With Orchestral Accompaniment.)

8.40. Walter Hyde.
'Impatience" ..... } ... *Schubert*
'Thou Art My Rest" }
'Serenade"

8.50. Harold Williams.
'Devotion" ..... *Sergeant*
'Two Grenadiers" ..... *Schumann* (1)

9.0. Orchestra.
Scherzo, "A Midsummer Night's Dream" *Mendelssohn*
'Valse Triste" ..... *Sibelius*

Walter Hyde.
'An Eriskay Love Lilt" } (Hebridean Songs) *Arr. Kennedy-Fraser* (1)
'Kishmul's Galley" }

Bella Redford.
"The Soldier's Wife" ..... *Rachmaninoff*
"Maman Dites Moi" ..... *Weckerlin*

Harold Williams.
"My Love's an Arbutus" } *Stanford* (1)
'The Old Superb" }

Orchestra.
'Notturno" ..... *Grieg*

10.0. NEWS and WEATHER FORECAST
S.B. from London
Topical Talk
Local News.

10.30. Orchestra.
Capriccio Italien ... *Tchaikowsky*

10.45.—Close down.

Announcer: Victor Smythe.

EDINBURGH.

3.45.—Concert: Rosina Wall and Gladys Edmundson (Violin and Pianoforte Duets and Soli). Maud Greener (Soprano).

4.45-5.1. WOMEN'S HALF HOUR. Helen Bertram on "Children's Toys."

5.15-6.0.—CHILDREN'S CORNER.

6.0-6.30.—Scholars' Half Hour. T. G. Hill, B.Sc.—Talk.

6.35-6.50.—Farmers' Corner: H. C. Pawson on "Agricultural Research."

7.0. NEWS and WEATHER FORECAST
S.B. from London
Dr. L. M. PARSONS. *S.B. from London.*
Local News.

7.30-8.0.—Interval.

Spanish Evening.

8.0. THE STATION ORCHESTRA
Conductor WILLIAM A. CROSSE.
Selection. "La Gran Via" ... *Valverde*
DOROTHY CLARK (Contralto)
Two Airs from "Carmen" ..... *Bizet*
ROBERT PITT and
LANGTON MARKS (Entertainers).
"Duets Up-to-Date"

Orchestra.
Entr'acte, "La Paloma" ..... *Yradier*
Waltz, "Santiago" ..... *Corbin*

KEMP JORDAN (Baritone)
"Lolita" ..... *Buzzi Peccia*
"Masha la Manana" ("Songs of the Pyrenees.")

Dorothy Clark.
Air from "Carmen" ..... *Bizet*
"El majo timido" ..... *Lecocq-Lefort*
"A Southern Folk Song" ..... *arr. Schneider*

Orchestra.
Selection, "Spanish Scenes" *Kemp Jordan.*
"Bolero" }
'La Catalana" }
"La Boca de Pepita" ... } "Songs of the Pyrenees"

Robert Pitt and Langton Marks.
"Duets Topical and Tropical."

Orchestra.
Two Dances ... . *Moszkowski*

10.0. NEWS and WEATHER FORECAST
S.B. from London.
Topical Talk
Local News.

10.30. Orchestra.
Selection, "Carmen" ..... *Bizet*

10.45. Close down.

Announcer: W. M. Stowen.

ABERDEEN.

3.30-5.0.—Popular Afternoon: The Wireless Quartette. Miss Adam on "The Industrial Section of the Highland Show." Janet Macfarlane (Soprano). Feminine Topics.

5.45-6.30. CHILDREN'S CORNER. Station Concert Young and Old Knights. "The Old Woman who Found Sixpence."

7.0. NEWS and WEATHER FORECAST
S.B. from London
Royal Horticultural Society of Aberdeen—Talk.
Local News.

7.30-8.30.—Interval.

Popular Programme.

JOSEPHINE MACPHERSON (Soprano)
HARRY HOPEWELL (Baritone).
THE WIRELESS ORCHESTRA.

8.30. Orchestra.
Selection, The Naughty Princess" ..... *Lincke*

8.45. Josephine MacPherson.
'The Land of Heart's Desire" *Kennedy-Fraser* (1)
'Sea Thoughts" ..... *Paston* (1)

8.55. Harry Hopewell.
'Oh, Way, Awake, Beloved!" ..... *Cowen*
Elenore" ..... *Coleridge-Taylor* (11)

9.5. Orchestra.
Selection, "Songs from Shakespeare's Time" ..... *arr. Horch*

9.30. Josephine MacPherson.
'Violets" ..... *Wright*
The Asra ..... *Rubinstein*

IMPORTANT TO READERS.

LETTERS FOR THE EDITOR should be addressed to "The Radio Times," 8-11, Southampton Street, Strand, W.C.2.

LETTERS FOR THE B.B.C., containing programme suggestions or criticisms, should be sent to the Organiser of Programmes, 2, Savoy Hill, W.C.2.

"The Radio Times," the official organ of the British Broadcasting Company, Ltd., is concerned solely with broadcasting programmes and the technical problems relating to their transmission.

"RADIO TIMES" READING CASE.

Messrs. George Newnes, Ltd., have now prepared a handsome case in red cloth with gilt lettering for "The Radio Times," complete with cord down the back to hold a copy of this publication. A pencil is indispensable to the listener during the course of the programmes, and this is included conveniently in a slot at the side. Listeners should order this to-day from any Newsagent. It is published at 2s. 6d., or send 4d. extra to cover postage for a case from the Publisher, 8-11, Southampton Street, Strand, London, W.C.2.

9.30. Harry Hopewell.
Gazing Around" ..... *Wagner* (11)
"Hindoo Song" ..... *Bemberg*

9.40. Orchestra.
Selection, 'Topsy Turvy Hotel" *Monckton*

10.0.—NEWS and WEATHER FORECAST.
S.B. from London
Topical Talk
Local News.

10.30. Josephine MacPherson.
Butterfly Wings" ..... *Phillips*
'The Captive Lark" ..... *Ronald* (5)

10.40. Harry Hopewell.
"Invictus" ..... *Huhn*
The Rebel" ..... *Wallace*
Parted" ..... *Tosti*

10.50. Orchestra.
Overture, "Zampa" ..... *Herold*

11.0.—HALL'S BAND. *S.B. from Glasgow.*

11.45.—Close down.

Announcer: H. J. McKee.

GLASGOW.

3.30-4.30.—Operatic Afternoon—The Wireless Quartette and Edith Johnston (Soprano).

4.45-5.25.—TOPICS FOR WOMEN. Domestic Science Chats.

5.15-6.0. CHILDREN'S CORNER.

6.0-6.5.—Weather Forecast for Farmers.

7.0. NEWS and WEATHER FORECAST.
S.B. from London.
Mr. J. R. RUTHERFORD, J.P., on "The British Empire Exhibition."
Local News.

7.30-8.0.—Interval.

Chamber Music. Dance—Song.

"Music is the expression of one's mood or thought, a Dream translated into sound."
MAURICE COLE (Pianoforte Recital.)

8.0.—Sonata in D Major, Op. 10, No. 3 *Beethoven*
Mazurka in B Minor ..... *Chopin*
Etude ..... *Rachmaninoff*
Arabesque ..... *Leschetizky*
Night in May ..... *Palmgren*
Scherzo in B Flat Minor ..... *Rosenbloom*

8.45. THE STATION ORCHESTRA.
Conducted by ISAAC LOSOWSKY
Overture "A Comedy of Errors" *Flax* (1)
Musical Comedy Selection: Bevy *Rubens and Steffan*

9.5. NEIL DONALDSON (Tenor).
Bonnie Isle of Skye ..... *Kennedy Fraser* (1)
'Jean" ..... *M. Meade* (1)

9.15. Orchestra.
Entr'actes { "Evenside" ..... *Middleton*
'Minuet" ..... *Moszkowski*

9.25. Neil Donaldson.
"In Dreams Fleeting" ..... *Oldroyd* (4)
"Song of the Don Cossacks" ..... *A. Coates* (4)

9.35. Orchestra.
Suite. "Scenes from an Imaginary Ballet" ..... *Coleridge-Taylor*

9.50. Neil Donaldson.
"Love went a-Riding" ..... *F. Bridge*
Nirvana" ..... *S. Adams* (4)

10.0.—NEWS and WEATHER FORECAST.
S.B. from London.
Topical Talk
Local News.

10.30. Orchestra.
Waltz, Frühlingsgluten" ..... *Gung'l*
March, Great Big David" ..... *Lotter*

10.45.—Dance Music by HALL'S BAND, relayed from Glenoglhe Hotel. *S.B. to Aberdeen.*

11.45.—Close down.

Announcer: Herbert A. Carruthers.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

WIRELESS PROGRAMME—SATURDAY (July 26th.)

The letters "S.B." printed in italics in the programmes signify a simultaneous broadcast from the station mentioned.

4.0-6.0.—Time Signal from Greenwich.

Popular Concert.

MOLLY TOMLEY Elocutionist
FRED NEW, Cello. SAM
THE WIRELESS ORCHESTRA
"Florentine March"..... *Fucik*
"Hints for the Holidays," by Eustace Miles, M.A.
The Orchestra
Waltz, "Carburina"..... *Lincke*
Overture, "Morning, Noon and Night
Songs
Recitation, "Trying a Magistrate,"
Songs.
"Wake Up."
"Five Little Piccaninnies."
The Orchestra
Selection, "Round the Map"..... *Finck*
Ballet Music, "La Source"..... *Delibes*
Recitation, "Lasca" (*Frank Dupre*)
Songs
"My Prayer"
"Honey (Dat's All)."
A Gardening Chat by Marion Cran, F.R.H.S.
The Orchestra.
Three Dream Dances..... *Coleridge Taylor*
Selection, "Il Trovatore"..... *Verdi*

6.0-6.45.—CHILDREN'S CORNER. Aunt Sophie at the Piano. Uncle Sam. Crowther's Fairy Story. E. Le Breton Wilson on "Old Tales Retold" (3). Children's News.

7.0. TIME SIGNAL FROM BIG BEN, 1ST GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. all Stations.*
Mr. CECIL J. ALLEN on "The Locomotives at Wembley." *S.B. to other Stations.*
Local News.

7.30-8.0. Interval.

A Comedy Evening.

8.0. THE WIRELESS ORCHESTRA
Conducted by DAN GODFREY, Jun.
WINNIE VAUGHAN and ROLAND MERRY (Entertainers)
E. W. HINCHCLIFF (Solo Bassoon)
The Orchestra
Intermezzo, "The Teddy Bears' Picnic"
Descriptive Piece, "A Southern Wedding"
Winnie Vaughan and Roland Merry
Songs and Duets
The Orchestra
Negro Sketch, "Down South"..... *Myddleton*
Intermezzo, "The Nigger's Birthday"
"The Baby's Opera"
Bassoon Solo
"Lucy Long"..... *Fred Godfrey*
Winnie Vaughan and Roland Merry
The Orchestra
Descriptive Piece, "By the Swanee River"
Selezzo, "The Jolly Musicians"..... *Maurice*
Fox-trot, "Maggie!" "Yes, Ma"..... (7)

9.30.—HALF AN HOUR AT WEMBLEY. *S.B. to all Stations.*

10.0.—TIME SIGNAL FROM GREENWICH (NOON), 2ND GENERAL NEWS BULLETIN and WEATHER FORECAST. *S.B. to all Stations.*
Mr. FRANK STEVENS, F.R.A.S., of Salisbury Museum, on "Holiday Peeps at Prehistoric Britain." *S.B. to all Stations.*
Local News.

10.30.—THE SAVOY ORPHEANS AND SAVOY HAVANA BANDS, AND SELMA FOUR, relayed from the Savoy Hotel, London. *S.B. to all Stations.*

12.0.—Close down.

Announcer: J. G. Broadbent.

3.30-4.30. Dance Music by the Savoy Orpheans and Savoy Havana Bands.
4.30. WOMEN'S CORNER. R. R. Instone on "A Day in Honolulu."
5.30-5.35. Agricultural Weather Forecast.
5.30-6.30. CHILDREN'S CORNER. Aunt Phil and a further Adventure of Snooky.
6.30-6.45. Teens Corner.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. HENRY GRUNDALL, of the Birmingham Philatelic Society, on "History of the Post."
Local News.
7.30-8.0. Interval.

Popular Programme.

8.0. THE STATION ORCHESTRA
March, "Washington Grays"..... *Orafidia*
Waltz, "Venus on Earth"..... *Lincke*
Selection, "The Dancing Mistress." *Monckton*

8.30. WALTER HYDE (Tenor)

"[illegible] Sea Rovers"	Humorous Songs	"[illegible]" "[illegible]"

Soprano [illegible]

8.45. Orchestra
Suite, "Three Country Sketches." *Howgill*
(a) Pastorale; (b) Dance; (c) Lullaby Valagers.

9.0. Walter Hyde.
"Eleonore"..... *Coleridge Taylor* (11)
"A Dream"
"I Love Thee"..... *Grieg*

9.15. Orchestra
Selection, "The Lose Domino" *Auber*.

9.30.—HALF AN HOUR AT WEMBLEY. *S.B. from London.*

10.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. FRANK STEVENS. *S.B. from London.*
Local News.

10.30.—THE SAVOY BANDS. *S.B. from London.*

Announcer: C. J. Paterson.

3.45-4.15.—The "ORM" Trio: Reginald S. Mount (Violin), Thomas Illingworth (Cello), Arthur Marston (Piano). Joan Hastings (Songs at the Piano). Talks to Women: Careers for Women.
5.15-6.15. CHILDREN'S CORNER.
5.0-6.45.—Scholars' Half Hour: A. Barraclough, M.A., F.R.G.S., on "A Holiday in the Isle of Wight."
7.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. CECIL J. ALLEN. *S.B. from London.*
Local News.
[illegible]

"Oriental Favourites."

NORA DELMARR (Soprano)
DOUGLAS SHARPINGTON (Baritone)
JOHN PERRY (Tenor)
THE WIRELESS ORCHESTRA
Capt. W. A. FEATHERSTONE

CHAPPELL
WEBER
BROADWOOD
pianos are in use at the various stations of the B.B.C.

8.0. Orchestra
Humorous Characteristic, "Kismet"..... *Mackey*
"The Turkish Patrol"..... *Michaelis*
8.15. Nora Delmarr
"Hindoo Song"..... *Bimsky Korsakow*
8.20. John Perry
"Moon of My Delight"..... *Liza Lehmann*
Beside the Lonely Nile
Woodforde Finden (1)
8.30. Orchestra
Two Hindoo Pictures..... *Hosmer and Lotter*
8.40. "FOUR INDIAN LOVE LYRICS," *Woodforde Finden* (1).
Douglas Sharpington.
Less Than the Dust
"Kashmiri Song."
Nora Delmarr
"Temple Bells."
"Till I Wake."
9.0. Orchestra.
Suite, "Ballet Egyptien"..... *Luigini*
9.10. Song Cycle
"A LOVER IN DAMASCUS," *Woodforde Finden* (1)
Nora Delmarr
Far Across the Desert Sands
John Perry
Where the Abana Flows
Douglas Sharpington
How Many a Lonely Camel
Nora Delmarr
Beloved, in Your Absence
John Perry
If in the Days to Come
Sharpington
Allah Be With Us.
9.30. HALF AN HOUR AT WEMBLEY. *S.B. from London.*
10.0. NEWS and WEATHER FORECAST. *S.B. from London.*
Mr. FRANK STEVENS. *S.B. from London.*
Local News.
10.30. THE SAVOY BANDS. *S.B. from London.*
11.0. Close down.
Announcer: John B. [illegible]

3.0-4.0. Falkman and his Orchestra, relayed from the Capitol Cinema.
3.0-3.45.—"SWAST." "FIVE O'CLOCK."
Frank Jones (Baritone). Talks to Women. Weather Forecast.
4.0-6.30. CHILDREN'S CORNER.
5.30. 6.45.—Hints on Tennis by Peter Eversham, the Welsh Lawn Tennis Champion.
7.0.—NEWS and WEATHER FORECAST. *S.B. from London.*
WILLIE C. CLISSITT on "Sport of the Week."
[illegible]

Popular Night.

HAROLD WILLIAMS, Baritone.
[illegible]
ROBERT PITT and LANGTON MARKS
8.0. THE STATION ORCHESTRA
Marche Militaire Française
Overture, Egmont
Songs.
West Country Lad
"Toreador Song" ("Carmen")
Robert Pitt and Langton Marks
Duets Up-to-Date
Suite, "Callirhoë"..... *Chaminade*
(a) Introduction and Danse Orientale; (b) Pas des echarpes; (c) Danse de Callirhoë; (d) Antinoüs; (e) Waltz.
"Myfanwy's Marriage," by Francis D. Grierson.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 167.

WIRELESS PROGRAMME—SATURDAY

(Continued from the facing page.)

The letters "S.B." printed in italics in these programmes signify a Simultaneous Broadcast from the station mentioned.

Songs.
"Oxenway, Awake, Beloved!" *Crave*
Yeomen of England *Germa.*
Robert Pitt and Langton Marks.
"Duets Topical and Tropical.
Orchestra.
Selection, "A Chinese Honeymoon" *Talbot*

9.30.—HALF AN HOUR AT WEMBLEY
S.B. from London

10.0.—NEWS and WEATHER FORECAST
S.B. from London.
Mr. FRANK STEVENS. *S.B. from London*
Local News.

10.30.—THE SAVOY BANDS. *S.B. from London.*

12.0.—Close down.

Announcer: E. R. Appleton.

MANCHESTER.

3.15-4.0 } THE LUTON RED CROSS PRIZE
4.0-5.0 } BAND, relayed from the Municipal Gardens, Southport. (Conductor, F. MORTIMER.)

7.0. NEWS and WEATHER FORECAST
S.B. from London.
Mr CECIL J. ALLEN. *S.B. from London*
Local News.

7.30-7.45. Technical Talk by R. H. WOOD. Chief Engineer of "2ZY"

7.45. **Dance Night.**
MASSEY'S DANCE BAND
STEPHEN WILLIAMS (Bass).
Band.
Waltz, "Wonderful One" (7); Fox-trot, Midnight Rose" (8); One-step, "Plain Jane of the Family"; Fox-trot, "Katinka" (19); Waltz, Selected; Fox-trot, "Coming Through the Rye."
Stephen Williams.
Air, "Pretty Lady" ("Don Giovanni") *Mozart* (1)
Band.
One-step, "Mary"; Fox-trot, "Swanee Smiles"; Waltz, "Love's Last Day"; Fox-trot, Selected; Fox-trot, "Down in Sweetheart Town"; One-step, "American Medley" (9).
Stephen Williams.
"I Love Thee" ..... *Grieg*
"Pilgrim's Song" ..... *Tchaikovsky*
Band.
Waltz, "Dreamy Melody" (7); Fox-trot, "How Can You Tell a Winkle?"; Fox-trot, "Steam-boat Sal"; One-Step, "WEMBLEY"; Fox-trot, Selected; Waltz, "Dear Love, My Love."

9.30-10.0.—HALF AN HOUR AT WEMBLEY
S.B. from London.

10.0.—NEWS and WEATHER FORECAST
S.B. from London
Mr FRANK STEVENS. *S.B. from London*
Local News.

10.30.—THE SAVOY BANDS. *S.B. from London.*

12.0.—Close down.

Announcer: H. B. Brenan.

NEWCASTLE.

3.45.—Concert by the Station Light Orchestra. (Conductor, William A. Crosse).

4.45-5.15.—WOMEN'S HALF HOUR: Gladys M. Seddon on "The Brontës."

5.15-6.0.—CHILDREN'S CORNER.

6.0-6.30. Scholars' Half Hour: Gladys M. Seddon, M.A., "Stories of French Literature," Part 3.

6.35-6.50. Farmers' Corner: R. W. Wheadon on "Curl Diseases of Potatoes."

7.0. NEWS and WEATHER FORECAST
S.B. from London
Capt. R. TWELVETREES on "Motoring."
Local News.

7.30-8.0. Interval.

Military Band and Pianoforte Recital.

BAND OF 9TH BATTN. THE DURHAM LIGHT INFANTRY
Conductor, G. F. FORD
Festival March "Future Rhine" ..... *Lincke*
Overture, "Banditenstreiche" ..... *Suppé*
EDWARD W. GOULD (Bass).
"Vulcan's Song" ..... *Gounod* (1)
"Harlequin" ..... *Sanderson* (1)
Band.
Scene from "Il Trovatore" ..... *Verdi*
Waltz, "Romany Rose" ..... *Nicholls* (9)
Edward W. Gould.
"When the King Went Forth" ..... *Koenemann*
"I'm a Roamer."
Band.
Selection, "Mary" ..... *Hirsch*
Fox-trot, "I Love Me" ..... *Weber* (9)
MAURICE COLE (Solo Pianoforte).
Studies: "Minor, Op. 25, No. 3"; "Major, Op. 10, No. 3"; "Flat Major, Op. 10, No. 5" ..... *Chopin*
Nocturne in B Flat No. 9
Prelude in D Minor, Op. 28 No. 24
Impromptu in A Flat
Scherzo in C Sharp Minor

9.30.—HALF AN HOUR AT WEMBLEY
S.B. from London.

10.0. NEWS and WEATHER FORECAST
S.B. from London
Mr FRANK STEVENS. *S.B. from London*
Local News.

10.30.—THE SAVOY BANDS. *S.B. from London*

12.0.—Close down.

Announcer: W. M. Shewon.

ABERDEEN.

3.30-5.0.—Miscellaneous Afternoon: The Wireless Quartette. Feminine Topics.

6.0-6.30. CHILDREN'S CORNER.

7.0. NEWS and WEATHER FORECAST
S.B. from London
Mr CECIL J. ALLEN. *S.B. from London*
Local News.

7.30-8.0. Interval.

8.0. This Week's Interesting Anniversary. "Capture of Gibraltar, 24th July, 1704."

Operatic Night.
TINA MACINTYRE (Soprano)
JAMES ANDERSON (Baritone).
THE WIRELESS ORCHESTRA.

8.30. Orchestra.
Selection, "Dinorah" *Meyerbeer*

8.40. Tina Macintyre.
"Ocean, Thou Mighty Monster" (Oberon) *Weber*

8.45. James Anderson.
"Non Più Andrai" ("Figaro") *Mozart* (11)

8.50. Tina Macintyre and James Anderson.
Duet, "Nedda and Silvio" ("Pagliacci") *Leoncavallo*

8.55. Orchestra.
"Lucia di Lammermoor" ..... *Donizetti*
Tina Macintyre.
"Depuis le jour" ("Louise") *Charpentier*

9.10. James Anderson.
"Eri tu" ("Masked Ball") ..... *Verdi*

9.15. Tina Macintyre and James Anderson.
"The Barcarolle" ("Tales of Hoffmann") *Offenbach*

9.20. Tina Macintyre.
Oh, Skies Cerulean" ("Aida") ..... *Verdi*

9.30.—HALF AN HOUR AT WEMBLEY
S.B. from London.

10.0. NEWS and WEATHER FORECAST
S.B. from London.
Mr FRANK STEVENS, *S.B. from London*,
Local News.

10.30.—THE SAVOY BANDS. *S.B. from London.*

12.0. Close down.

Announcer: W. D. Simpson.

BELFAST.

3.30-4.30.—The Wireless Quartette and Harry Hopewell (Baritone).

4.45-5.15. TOPICS FOR WOMEN. Miscellaneous Afternoon.

5.15-5.45. CHILDREN'S CORNER. At Home Day for Children of all ages.

5.55-6.0. Weather Forecast for Farmers.

6.40-6.55. Mr. James McCutcheon on "Treatment of Golf Courses."

7.0. NEWS and WEATHER FORECAST
S.B. from London.
Mr. J. H. BAIRD, A.F.I., on "The Lighter Side of Shorthand."
Local News.

7.30-8.0. Interval.

8.0-8.5.—Glasgow Radio Society.

Dance Night.

8.5. THE STATION ORCHESTRA
Conducted by ISAAC LOSOWSKY
Fox-trot, "Why Did I Kiss that Girl?"; Fox-trot, "Don't Love Me"; Waltz, "A Kiss in the Dark"; Fox-trot, "Dance On Dear" (3); One-step, "The Dervish" (8); Fox-trot, "Here He is Again."

8.30. DOROTHY CLARK (Contralto).
"Ballad Monger" ..... *Eastlope Martin* (5)
"Meadow Sweet" } ..... *M. Brahe* (5)
"Fairings" }

8.40. Orchestra.
One-step, "Wembley at Wembley With You" (6); Fox-trot, "Already" (7); Blues, "If I Can't Get the Sweetie I Want" (3); Fox-trot, "O Sister, Ain't that Hot?" (9); Fox-trot, "Why Should I Weep About One Sweetie?" (9); One-step, "La, La, La" (6).

9.0. Dorothy Clark.
"Song of the Bird-land" ..... *R. Quilter* (1)
"Song of Quaintness" ..... *H. Wood*
"A Dewy of Roses" ..... *Clarke* (1)

9.10. Orchestra.
Eighteenth Reel "S.S.S." Special"; Waltz, "Wonderful One" (7); Fox-trot, "Down on the Farm"; Blues, "Maggie Blues" (9); One-step, "O, Harold" (7); Fox-trot, "Ghosts" (23).

9.30.—HALF AN HOUR AT WEMBLEY.
S.B. from London.

10.0.—NEWS and WEATHER FORECAST.
S.B. from London
Mr FRANK STEVENS. *S.B. from London.*
Local News.

10.30.—THE SAVOY BANDS. *S.B. from London*

12.0.—Close down.

Announcer: Mungo M. Dewar.

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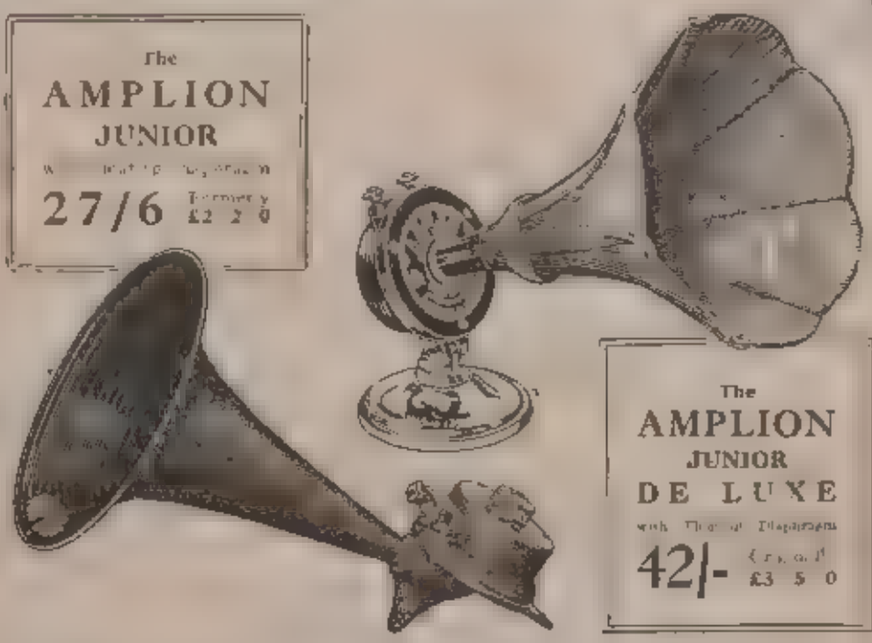

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Pieces in the Programmes.

A Weekly Feature Conducted by Percy A. Scholes.

DEBUSSY PROGRAMME.

(London, Monday.)

CLAUDE ACHILLE DEBUSSY, one of the foremost modern French composers, was born in 1862, and at the age of eleven or twelve, became a student of the Paris Conservatoire of Music. Winning the *Prix de Rome*, some years later, he was enabled to spend a few years in Italy, quietly developing his genius.

The compositions which Debussy, year by year, sent to the Paris Conservatoire, whilst he was in Rome, pleased the authorities less and less, they found them increasingly "vague."

The many objects of his studies, and particularly, perhaps, the music of *bells*, with their peculiar *harmonic* effects, gradually formed a highly individual style, which opened new paths for music. The straightforward harmonies, and well-defined moods of composers from, say, Bach to Wagner, gave place to harmonies and moods very subtly shaded. These, together with Debussy's natural inclination towards the dreamier aspects of nature, bring about that feeling of *vagueness*, which the professors of the Paris Conservatoire noticed so early, and which is almost unvaried in the composer's later work. To some listeners this vagueness at first offers a difficulty; to nearly all it becomes in time, a great charm.

Debussy died six years ago.

DEBUSSY'S PIANO MUSIC AND SONGS.

Debussy had a unique gift of expressing the musical counterparts of moods and emotions. The great majority of his compositions are musical "pictures" or "poems," bearing a definite title.

Those here chosen hardly need further description than their titles offer.

DEBUSSY'S STRING QUARTET

This is one of the few works of Debussy which he has left to convey their own message, without any descriptive title. It was written in 1893, when the composer was thirty-one years old. There are properly four Movements, but only three are to be played on this occasion, and in this order, I., III., II.

I

Animated, and very emphatic—This Movement opens at once with the MAIN TUNE (a short and very rhythmic one) in the FIRST VIOLIN, accompanied by the other instruments.

Note carefully the first two bars of this, which may be considered a sort of MOTTO, practically the whole Quartet being constructed [illegible]. Note how, in this Movement, it constantly appears, sometimes in one instrument, occasionally in all at once—and generally in something very like its original form.

III.

Moving steadily; very expressive. All the instruments are at first *muted*. The SECOND VIOLIN begins *alone* with a little undulating figure; the VIOLA answers with the same figure, and the FIRST VIOLIN takes it up, accompanied, and develops it into an expressive melody.

After some time, there comes a lull, and a definite break, then follows the—

MIDDLE SECTION. This opens with a lengthy Viola Solo.

All instruments are now muted and Second Violin and First Violin reply.

While they continue, the VIOLA starts a sustained, song-like melody, not unconnected with the "Motto," the 'Cello takes this up, and, very gradually, a climax is built up.

Eventually this dies down, and the FIRST SECTION is repeated briefly.

II

Very quick and rhythmic. If any music ever deserved the name of Scherzo (i.e., literally, a joke") it is surely this.

It opens with four loud, *pizzicato* (plucked) chords, answered by the "Motto" in the VIOLA, at a rapid speed.

The *pizzicato* chords and the "Motto" are repeated, then the VIOLA proceeds to repeat the Motto" *ad lib.* The Second Violin and 'Cello play a *pizzicato* accompaniment, while the FIRST VIOLIN adds an extraordinary Tune—also *pizz.*

With this [illegible] course. But one fascinating moment (which recurs) is that when the FIRST VIOLIN turns the "Motto" into a beautiful sustained melody. Look out for this.

BEETHOVEN'S STRING QUARTET, No. 2.

Manchester, Sunday.

This Quartet is the third of six delightfully fresh String Quartets (Opus 18), belonging to Beethoven's first period, and written about the year 1800, when he was [illegible] years of age.

There are the usual four Movements.

I

Quick. This Movement is in the customary Sonata Form [illegible]. It consists of a *Statement* of Tunes, their *Development*, and their *Recapitulation*.

The FIRST GROUP of Tunes begins at once with the most important Tune of the Movement in FIRST VIOLIN—a fairly long phrase in which long and short notes alternate. This is handed about by all four instruments.

After other snatches of melody, the 'Cello starts a figure like a rapid peal of eight bells; the FIRST VIOLIN takes this up, ushering in the—

SECOND GROUP of Tunes. Much is made, in this Group, of the convergence of the four parts from top and bottom extremes to centre, and of their divergence outwards again.*

II

Moving steadily. This Movement really defies all but the most detailed technical analysis. Briefly, it is in *Rondo* Form, that is, the Main (opening) Tune recurs after all new material. The MAIN TUNE, in this case, chiefly consists of a short, undulating figure. This expressive figure is the basis of the whole Movement, being frequently heard in the Bass.

III

Quick. This is in effect a Minuet and Trio, though Beethoven did not give it that name. Its form is as follows:—

(i.) MINUET. A simple, short Tune, which is repeated and developed.

(ii.) TRIO. Entirely made out of a running, scale-like phrase, and leading into—

(iii.) REPETITION OF THE MINUET. The two sections of which this time are not repeated.

IV

Very Quick. This is a playful dance-like Movement. It is probably best to listen to it without any special effort, beyond, perhaps, noticing the tripping figure with which it opens.

*"It may be asked: Why are these Tunes classified into two groups? What distinguishes the groups? In "Sonata Form" [illegible] appearance in the First Group are in the "key" (the main key of the Movement), all those in the Second Group are (broadly speaking) also in one (but different) key. Then comes the "Development" of the tunes, in which (fragmentarily) they wander far afield through various keys; lastly comes the repetition or "Recapitulation" of the tunes, in which they now appear in the same key, and that key the chief one of the Movement, thus giving completeness to the whole design.

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The Nature of a Liquid.

A Talk from London, by Sir William H. Bragg, F.R.S.

THE difference between a liquid and a [illegible] is that, in the latter, the atoms and molecules move to and fro in an independent existence, meeting one another occasionally but for the most part of their time solitary and free from mutual influence. In the former state the atoms and molecules never let go [illegible] each other, with exceptions to be mentioned, though their ties are so loose that they continually changing partners and moving to fresh places in the general body. There is yet one more state of binding to consider, namely, when the atoms and molecules are locked together into a solid mass, because the ties are now firmer and more numerous than in the case of the liquid. We are now dealing with the liquid stage, lying between the solid and the gas. The underlying reason for the liquid stage is that there is the right balance between the attractions which would draw the atoms and molecules together into a compact solid, and the heat motions which would force them to part company and take on the form of a gas.

Varying Forces.

The forces between atoms and molecules vary very greatly. When they are very weak, as in the case of the "unassociable gases," the substance is a gas at almost all temperatures. When they are moderately strong, as in the case of water, we have a liquid at ordinary temperature, and we can turn it into steam, that is to say, a gas, by heating, and increasing the motion of the water molecules, or into ice, that is to say, a solid, by taking some of the heat motion away.

Although the molecules of a liquid are generally in continuous touch with each other, yet we have certain exceptions as already mentioned, and we find them at the boundary of the liquid. A liquid has a boundary because the molecules cling to one another; that is why we see a liquid, while we cannot see a gas, which has no definite surface. The boundary of the liquid is the most interesting part of it; there is more going on there than anywhere else.

Molecules that Change Partners.

Moreover, it is the most important part in this sense—that it is the place of contact with other liquids, and other substances, and is therefore, the scene of chemical and physical changes that go on by reason of the contact. It is a curious and noteworthy fact that modern science finds itself in constant consideration of the surfaces of liquids and solids for this very reason.

Let us take a simple case as a starting point. Imagine a bowl of water standing on a table within an otherwise empty room. In the body of the water the molecules are in constant movement to and fro, changing partners continually. Sometimes, no doubt, a molecule may be momentarily free, but it is immediately clasped again by its neighbours. At the surface, however, molecules are always breaking away and moving off into the empty spaces of the room. It may be that a molecule on the surface receives some violent blow in just the right direction and it breaks its chains and becomes independent.

The Results of Evaporation.

The liquid in the bowl slowly disappears, it evaporates, as we say. The room becomes charged with water molecules flying about as a gas, mingling with the molecules of the air. If the room is big enough, or the air is continually changed, the whole of the water will disappear in time. Otherwise, there will come a time when the room is so full of flying water molecules that every second the number that strike and re-enter the water in the bowl will equal the number that leave it, a balance has been struck, the bowl will always contain the same [illegible] of water, though it will really [illegible] hanging water, while the air in the room will remain perpetually damp. These conditions are, of course, ideal; if the experiment were tried, in practice, other complications would be sure to come.

Why Liquids Get Cool.

Evaporation causes a loss of heat from the liquid. Energy has been absorbed in breaking the bonds between the molecules, and the [illegible] that [illegible] will be, on the whole, more energetic than those that stay behind. This is a very well-known effect. We all know how cold it is when the wind blows on our wet skin; if we dip our fingers in ether and wave them about, it is chillier still because the evaporation is so much more rapid. Water is cooled by placing it in some porous vessel so that surface evaporation can take place.

Evaporation is always going on. The difference between evaporation and boiling is that in the latter case, the rate at which the molecules leave the surface and the number of them are so great that the whole atmosphere is, so to speak, pushed to one side and its place is taken by a cloud of water vapour or steam; in the former case, the evaporating molecules have to beg a passage, one by one, through the surrounding air. The temperature at which a liquid boils depends on the pressure which the molecules have to overcome; at the top of a high mountain the boiling point is so low that a boiled egg is not properly cooked.

A Striking Experiment.

The heat that is wanted if a liquid is to be evaporated is a measure of the energy required to tear the molecules away from one another. The use that we make of steam should give us an idea of the magnitude of these forces, which, though individually small, are so powerful in the gross. Perhaps we realize their existence more directly when we consider any hanging drop of water. The molecules are clinging to one another like bees in a swarm. The links with which the molecules of the topmost layer are attached to the surface from which the drop is hanging are carrying the weight of the drop.

And yet again the experiment is not so impressive as it might be. We can make the drop a foot long if we please by the following device. We take a glass tube shaped like the capital letter V, each limb a foot or more long, the tube is partly filled with pure water and is closed at both ends after all air has been removed from it. By inclining the tube, the water can be made to fill one side of the V and part of the other.

When Water Does Not Wet.

The tube is then carefully brought back to the upright position of the capital letter and it is found that the water still remains where it was put. On the full side the water is clinging to the glass at the top of the tube, and the strains there hold all the water that hangs below: we have, we may say, a drop a foot long.

If we give the tube a sharp knock, we break the union with the glass and the column of water falls on one side of the V and rises on the other until the level is the same on the two sides. We exhibit here not only the forces that hold the molecules of water together, but those that hold the molecules to the glass. Molecules do not always cling to a surface with which they are in contact; as we say, in other words, they do not "wet" the surface. Mercury never wets glass, and water wets it only when both water and glass are clean.

When a liquid does not [illegible] as it, the molecules [illegible] the liquid together into as small a volume as possible. We see the effect in the rounded edge of the mercury that is placed into a glass vessel, more clearly still in the spherical form of the mercury drops that run so briskly on a table upon which a little mercury has been spilt.

Now let us look a little more closely into the question of "wetting." Clean glass is wetted by clean water; but if the glass is slightly [illegible] the water shrinks from it in the same way that mercury does.

Oil Molecules.

[illegible] that we have a clean water surface [illegible] a minute drop of oil on it. The oil spreads out into a thin film. To make the [illegible] clear, it is convenient to dust the surface of the water with tale powder or anything of the kind that happens to be available. A fine glass rod is dipped into oil, salad oil will do, and then wiped with a cloth, so that to the eye there seems that no oil is left on it. But there is really quite enough. When the rod touches the water, a circle free of dust is instantly cleared: a touch somewhere else makes another circle; we may make several in succession. We ask ourselves what has happened.

It appears from recent researches that the oil molecules spread themselves over the surface until a film has been formed which may be only one molecule thick. The oil molecule is known to have the form of a long chain of carbon atoms tightly fastened to each other; all along its sides the chain is bordered with hydrogen atoms, and at each end is a little group of atoms which very largely determines the behaviour of the molecule.

Like Corn in a Field.

It is often the case that one of the end groups has a strong affinity for water, while the other end has not; neither have the side attachments the same affinity. But the chains have a considerable tendency to join together side by side. When the drop is put on the water, every molecule hastens to get its active end into the water, and at the same time the molecules fall naturally into line, so that, finally, all the molecules are standing upright on the water while the other ends are waving free, like corn in a field. Each molecule is about a two-millionth of an inch long, and this, of course, determines the thickness of the thinnest film, though there may be several thicknesses on [illegible].

We have now given quite peculiar properties to the surface of the water: we have covered it with a very fine skin. The wind does not catch hold of such a surface as it does of a pure water surface, and that is why oil stills the surface of the sea on a storm.

Now, when a solid is covered with a thin film of oil, the same arrangement takes place; a greasy glass surface presents to the exterior world the same unattracting layer, and water does not wet it.

THE biggest aerial in the world is being erected at the wireless station at Hillmorton, near Rugby. It will be a mile and a half long and half a mile wide, and will be supported by 12 steel masts weighing 300 tons and 820 feet high, or more than twice the height of St. Paul's Cathedral (365 feet). Each mast is fitted with a lift inside capable of carrying four men.

The new wireless station will be capable of communicating with any part of the globe.

The Day of the Radio-Cinema.

Radia-Reflections: By J. E. BUCKROSE, the Popular Novelist.

A GOOD many of us desire a return to primitive conditions when we are bewildered and exasperated by the clamour of modern life, but we do not kill the neighbours' cats in order to dress ourselves in the skins. On the contrary, if we have intelligence enough to feel fully the stir of ideas, inventions, discoveries, we shall be all the more likely to wear modern dress of as good a cut and style as our [illegible]. We should, in short, make the most of that stage of civilization in which we find [illegible].

Wonder That Destroys Wonder.

Equally, we may quite well feel that broadcasting simply increases the unrestful atmosphere in which we now live without giving an adequate return. We may see in it just another of those wonders which appear gradually to be destroying Wonder.

But whatever we may think about the whole affair, we have no choice. Men can no more go back to a world without wireless than to the Garden of Eden, and the only thing therefore that any sensible person can do is to look round and find out how to get the very greatest amount of profit and pleasure from this extraordinary new power which the genius and unceasing labour of others has literally thrust into the hands of the race.

Listening for the Lonely.

And, first of all, we come upon the simplest, most universal, and yet the nearest use for this power. For, strangely, our crowded world has made many, many thousands of people more lonely than ever before though surrounded by miles of houses inhabited by fellow-mortals. To the great army of those whom age, temperament or circumstance has made the victims of this secret loneliness, and who ache for companionship, but are too proud to risk a rebuff, the refreshment of listening is inestimable. I know this, because a few days ago it happened to a woman near the place where I live who had been confined to her room for twenty years, and when she listened to the first item of a concert her face was so transfigured that the donor of the set felt a lump in her own throat and could hardly refrain from tears. It was as if somebody long a prisoner looked out of a window suddenly flung open at the sunset on the Yorkshire moors.

The Devil of Convention.

This refers to the mentally lonely. But to the physical solitude of remote farms and desolate outposts, the wireless may also bring just that sense of contact with the full stream of life which will keep a man from recklessness or despair.

But this immense comfort to the solitary people will cease to be effective after a while unless those who choose the programmes and the staff are very alert. They should feel deeply—as no doubt they do—the serious and splendid opportunity which is theirs; but they should also be constantly on their guard against the devil which is always hovering round the establishment, anxious to spoil [illegible]. The Devil of Convention is [illegible]. Nearly did this [illegible] finest exponents of the film art resolutely declined to grimace as [illegible] tion is as difficult to get rid of as rats [illegible] Australian bedding.

J. E. BUCKROSE.

And it is almost impossible to avoid [illegible], but on the achievement of seeming [illegible] founded, and I am sure that the genera[illegible] has done so much can do that one thing more which will make her the whole a joy, a comfort, and an artistic pleasure to people of all tastes and at all stages of mental [illegible]. Conventions harden—so to speak—before producers know where they are, and all in charge should do their best to avoid getting into that set manner which is so easy to contract and so terribly difficult to [illegible]. This is worth the great effort involved, for only so will speakers keep contact with the human heart as well as the human ear, and guard for us all a means of spreading gaiety and good thoughts, the value of which cannot at present even be estimated.

The Importance of Fun.

It is simple enough, of course, to criticise a programme, but to find subject matter which is suitable for all ages and all tastes is a more complicated matter than some glib amateur critics would seem to believe. For instance, the imagination for a moment the same item has to please an elderly lady of strict views, a gay young woman who takes life as it comes, a whistling schoolboy, and a stockbroker. That shows the very [illegible] what has to be considered.

But so far as I can judge, it is not necessary to take any great trouble to avoid being hackneyed, the fact being that we are all hackneyed, though we would rather believe that the mould was broken after we were made. Any old joke may be amusing because all the real jokes are old. The savage who sat down on a stone that was not there was the ca[illegible] gunning of that chain of deag[illegible] which shows no sign of being cut short. Such episodes translated into words form part of [illegible] family jokes of the race, and without [illegible] it, normal people are reminded [illegible] we were once all in the nursery of [illegible]. The thing to avoid is a new hand at way of telling the joke.

It is absolutely necessary to simulate enjoyment if real success is to be attained in the broadcasting of humorous items, and fun must be an important feature, so long as men continue to love that good laughter which is like a tonic to tired minds.

A Vision of the Future.

Anyone who has noticed the pathetic fashion in which we all sit listening to a miserably poor revue, like poor dogs quivering eagerly at the prospect of having some meatless jest thrown to us over the footlights, will agree that I am not exaggerating the importance of humour in broadcasting. But without seeing the speaker's face and gesture, the difficulty of being funny is immensely increased and the quality of the joke has to be so much better, that the whole thing begins to seem a counsel of perfection.

And here comes the vision of that combination of the film with the wireless which will—so I believe—form the dramatic representation of the immediate future. For an alliance of these two great popular methods of reaching the mind through the eye, and through the ear, might surely produce a result that would be at once beautiful, telling, and accurate. Already the scenic part of any ordinary good film far surpasses anything achieved in the wildest imaginings of the greatest actor-manager ever born. All the places whose names breathe romance and adventure are there before us. Bagdad, Rome, Venice—the real street and hills be[illegible] us with people moving in them, and not mere symbols of lath and plaster. But all [illegible]!

Life for the Ghostly.

It is for the wireless to make them come alive, by adding the sound of the human voices to those silent, ghostly men and women. I do not know how this can be done, but I do feel sure that such immense strides forward will ere long be taken in these two branches of art that the charm and beauty of the human race in its lightest modulations will be able to be conveyed unspoilt, in harmony, with the free, unaffected acting of players who have cast off the last bonds of the Cinema Convention which threatened the higher existence of the film. And as no thinking person, however much attached to the theatre, can fail to be easily aware that it is for some reason losing hold on the English public, so is it for the Radio-Cinema to step in and supply that demand which seems to have been present in most civilized communities for many years.

"How very strange that you can't hear anything, Professor!"

THE Ethophone V is a Tuner Receiver and Power Amplifier combined, employing four valves. It is capable of good loud speaker reception at great ranges. Its price, without valves or H.T. Batteries, is **£33.**

The Ethovox Loud Speaker gives perfect, silver-toned, mellow reproduction of all musical and vocal notes. It is coloured a warm mahogany shade and is gracefully shaped. Its price, with either 20 or 2,000 ohms resistance, is **£5**

The price of the Ethophone V and the Ethovox, together with valves, batteries, accumulator, telephones and aerial equipment, is **£51 3s. 0d.**

Radio Joys in your Garden on Summer Evenings

SUMMER, with its glorious sunshine, is here at last! During the heat of the day in office and home the lure of the cool of the evening in your garden presents a great delight. The colours of the flowers stand out gaily on their background of green and the cool evening breezes are perfumed by their fragrance. Into these ideal surroundings there comes a new pleasure—the pleasure brought by broadcasting. With the Ethophone V and the Ethovox Loud Speaker you can enjoy good music, correctly reproduced, anywhere—at this season we suggest that your garden, roofed by gold-flecked summer skies, shall be the auditorium.

Radio out-of-doors, by means of the Ethophone V and the Ethovox Loud Speaker, makes a wonderful appeal to the senses, that you must experience to appreciate.

Write for particulars of the Ethophone V and the Ethovox—two perfect wireless instruments that will enable you to make the most of radio anywhere

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Please send me your catalogue (describing the Ethophone V, the Ethovox, and other Burndept apparatus) and some Applause Cards. (The B.B.C. welcome comments and the artists will feel that their efforts are repaid if you express your opinion of the programmes on these Cards. Help to better British broadcast.)

NAME .....

ADDRESS .....

DATE .. Radio Times. 18.7.'24

THE CHILDREN'S CORNER.

CONDUCTED BY UNCLE CARACTACUS

How the Children of Russia Live and Play.

HULLO, children!

Have you ever wondered how the children of other countries live? If you have this talk by Miss N. Brukev tch about child l[illegible] is certain to interest you.

Have you ever slept on a hot stove? That's what thousands of Russian children do in cold weather. Perhaps you think they have to do it as some horrible sort of punishment. But they would laugh if you suggested that to them. They do it because it is the warmest, cosiest, jolliest place they know of—and in a Russian winter you want to get into just the warmest place you can.

A Queer Sleeping Place.

The stove in a Russian house is not like your fireplace or gas-stove. Most of the millions of people live in the country for there are not very many big towns. In the villages most of the houses are wooden, and the roof is made out of straw. The whole house often consists of one big room [illegible] is called an "izba." The greater part of the room is taken up by the big white stove, which reaches almost up to the top of the room. This stove is used for cooking and for sleeping on. When it is time to go to bed, and this is very early in [illegible] almost as soon as it gets dark the whole [illegible] climb up to the top of the stove and sleep there. If there is not room for all, the one who has to sleep below is the unlucky one.

The room is lighted up by thin splinters of wood, which are changed when they burn down low. These wooden candles smoke as they burn and do not give a very good light. In winter these little houses are all covered with snow, so that their straw roofs look like tops of mushrooms.

CHOIR BOYS WHO BROADCAST

These boys are from the choir of St. Margaret's Episcopal Church Newlands, and recently they sang a programme of English music from the Glasgow Station. They are all members of the "Radio Circle."

Now let us go out of doors into the great [illegible] which stretches over an area nearly as big as all the rest of Europe put together.

Everything [illegible] the river is frozen, the trees of the forests, Christmas trees and pines, are all white with snow. Now is the time for a good game of snowballs! All the children directly they escape from school, run out into the [illegible] and begin snowballs, they also make themselves little sledges. These they pull [illegible] another about in a way as [illegible]. They lie down flat on them, give a push, and come flying down on them at a great rate so that "their soul goes down into [illegible] as they say. Then, of course, [illegible] "tobogans," as we [illegible] Everyone can skate in Russia; the rivers are frozen and you can fly along the shining ice for miles and miles.

Many of the Russian children believe in witches, who, they say, come through the chimney on Christmas Eve; but directly the Star which guided the Shepherds appears, the witches vanish.

Russian children love fairy tales. In the long winter evenings while they are lying on the warm stove the grandmother of the family often tells them a fairy tale. The story generally begins with: "Once upon a time, in a far-off land, beyond the blue seas [illegible] lived a Tzar who had three sons——" Then it goes on to tell generally that two of these sons are wicked and one is good, brave and faithful. He goes out into the world to find a beautiful golden bird with feathers as bright as the sun. The story tells of all his wanderings and the misfortunes that befall him. The truth wins and everything wicked is vanquished in the end.

The "Baba Yaga."

A great part in all these stories is played by the "grey wolf" who generally helps the hero. Good and bad spirits take a prominent part in the hero's life. One of the figures which is very impressive is the "baba yaga," an old hideous woman with a big hooked nose, grey hair falling all round her, and long skinny arms with nails on her fingers which are like claws.

In summer there is not much time for tales. There is too much to do in the fields. The children, as soon as they are old enough, even when they are ten, or eleven, work all day long in the fields helping their fathers and mothers to sow and reap and later on to get in the [illegible] There is no time for games, except just for a few moments. Then they play at leap-frog or with the top.

(Continued from the previous column.)

the paint pot into the open. The zebras raised their little heads, sniffed the air and "Gracious me!" cried Grandfather Hopkins, as he saw them trot off, faster and faster, until they disappeared round the big glue-pot into the jungle of card board boxes at the far end of the table.

"Make me a girl," said Sabo, and Grandfather Hopkins hobbled off to his fret saw, and soon cut out the figure of a girl in a piece of white wood.

"I'll make Liza," said Sabo; and he painted the wood to make it look just like her.

Then Sabo blew softly in her face, and her eyes flickered and her lips parted a little, and, smiling, she took hold of her purple skirt with the tips of her fingers and curtsied, and afterwards she began to dance.

This was more than Grandfather Hopkins could stand. "Lawk-a-mercy! Lawk-a-mercy!" he cried, and, waving his hands above his white head, he hobbled out of the shed,

SABO AND THE TOYMAKER.

By E. W. LEWIS.

SABO was very happy in Primrose Court. Eliza Hopkins who was his devoted slave, lived with her mother and her grandfather in three rooms on the third floor. The stairs which led up to their landing was dark and dingy, but once you got inside the living room, everything was bright and cheery and as clean as a new pin.

Looking down from the window, in which he was perched, Sabo could see a little yard at the back of the house, and at the end of the yard there was a shed. It was a black shed, with a dirty window, and a door through which, every now and again, a little old man hobbled in and out, like a mouse coming out of its hole and running back again. This little old man was Liza's grandfather. He earned his living by making toys, and the shed was the place where he made them.

On the days when Liza had to go to school, she usually left Sabo in her mother's charge with many orders for his safe keeping; but sometimes she took him down to her grandfather in the shed.

The first time Sabo was taken into the shed he thought it was a wonderful place. All the toys were made of wood. There were ducks with yellow beaks and green wings; and giraffes with long spotted necks; and brown elephants. Brown elephants! Sabo knew better than that! He had seen elephants, and he knew they weren't brown. So, one day, he looked round among the paint pots on the table in the shed and finding some paint of a slaty-grey colour, he said to Grandfather Hopkins, "That's the colour of elephants—not brown!"

"I'll make a zebra for you," continued Sabo, and he picked up a piece of wood which had already been cut into something like the shape of a horse. So, while Grandfather Hopkins was busy with his lathe and his saw, Sabo painted a Zebra with stripes all over it.

Then Sabo painted another one. In a short time he had made six, and he put them near together on the table among the little shavings, and he said, "They're in the forest eating grass. Have you such a thing as a lion, Mr. Hopkins?"

Grandfather Hopkins turned out a whole Noah's Ark full of animals, and picked out one.

"Now, watch!" cried Sabo, and he made the lion come creeping [illegible] and a paint pot into the open space where the zebras were. "Watch the zebras run, when they see him."

But the Zebras didn't run, although Sabo shouted to them to warn them that a lion was coming.

"Oh, I forgot," said Sabo, and he puffed up the zebras one by one and blew in their faces.

"What do you do that for?" said Grandfather Hopkins.

"That's breath," replied Sabo. "They're not alive till they've got breath. Now they've got it," and Grandfather Hopkins saw the little Zebras moving their stiff little legs and pushing their noses among the shavings.

Sabo blew into the face of the lion too, and hid behind the paint pot. The lion crouched on the table, and then came crawling round

(Continued at the foot of the next column.)

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The Triumph of the Master Mind

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Edinburgh Programme.

Week Beginning Sunday, July 20th.

SUNDAY, July 20th.

3.0-5.30 *Programme S.B. from London.*
6.30-9.0 The Rev. C. W. G. TAYLOR M.A., Religious Address, with Hymns by the Choir of St. George's Parish Church, Charlotte Square.
9.0-10.30. *Programme S.B. from London.*

MONDAY, July 21st.

3.30-4.30 Band of the Dunedin Palais de Danse.
5.0-6.0. CHILDREN'S CORNER.
7.0-7.30 *Programme S.B. from London.*
7.30-7.45 —Recital by ARTHUR NELSON of the poem "The Tomb of Burns" *Sir William Watson*
8.0-11.30. —*Programme S.B. from London.*

WEDNESDAY, July 23rd.

3.30-4.30. Band of the Dunedin Palais de Danse.
5.0-6.0. CHILDREN'S CORNER.
7.0 onwards.—*Programme S.B. from London.*

TUESDAY, July 22nd, THURSDAY, July 24th, and SATURDAY, July 26th.

5.0-6.0 CHILDREN'S CORNER.
7.0 onwards.—*Programme S.B. from London.*

FRIDAY, July 25th.

3.30-4.30. Band of the Dunedin Palais de Danse.
5.0-6.0. CHILDREN'S CORNER.
7.0.—NEWS and WEATHER FORECAST *S.B. from London.*
Dr. L. M. PARSONS. *S.B. from London.*
Local News.
7.30. **Programme of Modern Composers.**
BESSIE SPENCE (Solo Violin).
MARIE THOMSON (Soprano).
H. A. CARRUTHERS (Solo Pianoforte).
MARCUS DODS (Baritone).
J. C. A. HEWAT (Tenor).
JOAN SINGLETON (Accompanist).
Bessie Spence and Herbert Carruthers.
Sonata in E Minor, Op. 82... *Elgar* (1)
Marie Thomson.
"Early Morning" ..... *Graham Peel*
"The Unforeseen" ..... *Cyril Scott* (4)
The Shepherd's Song ..... *Parry*
(Accompanied by Bessie Spence.)
8.3. Bessie Spence.
"Oriental" } ..... *Oscar Gee*
"Melodie" ..... }
"Chanson Napolitaine" } ..... *Tchaikowsky*
8.20. Marie Thomson and Marcus Dods.
Duet, "A Farewell" ("Songs of the River") ..... *Thomas Dunhill*
Herbert A. Carruthers.
Capriccio in B Minor..... *Brahms*
(By request.)
Jardin Sous la Pluie"..... *Debussy*
8.40. Marcus Dods.
"Invern" ..... *Parry* (1)
"I Feel Thy Soul's Dear Presence" *Quilter* (1)
(Accompanied by Miss Mai...)
The Two Grenadiers ..... *John Addison*
8.55. Marie Thomson.
"The Sleep That Flits on Baby's Eyes" *Maurice Besly* (2)
(With Violin Obbligato played by Bessie Spence.)
"Melmida" ..... *Clive Carey*
"Bluebells From the Clearing" *Ernest Walker* (4)
"The Maiden" ..... *Parry* (1)
9.15. J. C. A. Hewat.
"Your Tiny Hand is Frozen" (" Bohème") ..... *Puccini*
Duphona" ..... *Harse...*
9.25. Marie Thomson and Marcus Dods.
Vocal Duet, "The Swing Song" ("Veronique") ..... *Messager*
9.35. Marcus Dods.
An Uncouth Love Song *Walford Davies* (2)
"A Land of Silence" ..... *Quilter*
"Love Went a-Riding" ..... *Frank Bridge*
9.45. J. C. A. Hewat.
"Over the Mountains" }
"The Jolly Miller" ..... } ..... *Quilter*
10.0.—NEWS and WEATHER FORECAST *S. from London.*
Topical Talk. Local News.
10.30.—Close down.
Announcer: G. L. Marshall.

Uncle Fellows calling!

HULLO everybody! This is Uncle Fellows calling. I have not the pleasure of knowing you all personally, and yet we seem to be old friends.

Do you remember [illegible] obliging gentlemen from Wireless used concerts? That was in the pre-B.B.C. d[illegible] of years ago, but what a lot of w[illegible] the bridge since then! Even in those d[illegible] Fellows Works were manufacturing and experimenting hard—had been for some

No one could quite see how Broadcasting would turn [illegible] of what type of set you would demand. It [illegible] ly certain that you would need a[illegible] would give really good results and be to operate, and yet we must, above all, [illegible] at all gadgets" or exp[illegible]

Put in a sentence, our policy was

"Quality apparatus at Low Cost."

We have been working on that policy for two years, and the job we are now having to keep pace with your demands proves that when we decided that policy we were building even better than we knew.

[illegible]

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THE PORTABLE THREE.

[illegible]

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Polished Cabinet Case ..... 15 Guineas.
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Brandes

The Name to Know in Radio

Result of 16 years' experience.

Pulled his leg—

unmercifully for quite a while. Told him his set was like a gas meter without a shilling—you get nothing out of it. She turned "all those funny knobs" the wrong way and tried to fix his valves in the electric light when one of the lamps failed. Finally her brother said sisters were a curse but consented to let her listen through a Brandes. Now she appreciates the merit of his receiver—everything comes through clearly and sweetly with a rich even-toned volume. "Matched Tone" does it! "Matched Tone" is the reason for this now ironic situation. He is not even bribed to make himself scarce now, when his sister's most favoured suitor calls—he sits disconsolate while *they* listen to the broadcast programme.

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Matched Tone
TRADE MARK
Radio Headphones

Liverpool Programme.

Week Beginning Sunday, July 20th.

SUNDAY, July 20th.

3.0–5.30 } *Programmes S.B. from London*
8.30–10.30 }

MONDAY, July 21st, to THURSDAY, July 24th, and SATURDAY, July 26th.

4.0–5.0 [illegible] relayed from the Scala Super Cinema

5.30–6.15.—CHILDREN'S CORNER

7.0 onwards.—*Programmes S.B. from London*

FRIDAY, July 25th.

4.0–5.0 Gadsby and his Orchestra relayed from the Scala Super Cinema

5.30–6.15. CHILDREN'S CORNER

7.0. NEWS and WEATHER FORECAST
S.B. from London
Dr. L. M. PARSONS. *S.B. from London*
Local News.

British Composers' Night.

THE TUDOR SINGERS
THE M'CULLAGH STRING QUARTETTE
Explanatory Notes by J. E. WALLACE MacDoe, F.R.C.O., A.R.C.M.

7.30 "Awake, Sweet Love" (4 part) } *Dowland*
Sleep, Wayward Thoughts } (11)
"Weep No More, Sad Fountains" } *Dowland* (11)
"Lullaby" (5 part) .. *William Byrd* (14)
"Lady, Your Eye" (5 part) .. } *Thos. Weelkes* (14)
"Sing We at Pleasure" (5 part) }

8.0.—Pianoforte Quartette in A Minor
Herbert Howells (14)

8.15. "I Love Thee" } *Grieg*
"I Love My Love" .. (4 part) } *Holst*
Lullay My Liking }

"The Turtle Dove" } (3 parts) } *Elgar* (2)
"The Blue Bird" .. } *Bantock* (14)
Ford (14)

'Autumn Song (4 part) *Gustav Holst* (4)

8.0. ISABEL M'CULLAGH and GERTRUDE MEASHAM
Sonata for Two Violins *Henry Purcell*

9.20. "When the Cock Begins to Crow" (3 parts) *Henry Purcell* (11)
Arise, [illegible] } *Thos. Morley* (14)
Lo, She Flies (5 part)
Love's Folk [illegible]
Arraying" (5 part) ..
Now is the Month of Maying" (5 part) ..

9.30 String Quartette.
"The Lonely Shepherd" ..... *Speaight*
[illegible]
"The Last Rose of Summer" *Holbrooke*
"Sir Roger de Coverley" ..... *Bridge*

10.0.—NEWS and WEATHER FORECAST
S.B. from London
Topical Talk.
Local News.

10.30 "The Lonely Shepherd" .. *Speaight*
"Sir Roger de Coverley" .... *F. Bridge*

10.40.—"Come to Me, Grief" (5 part) *Byrd* (14)
The Spacious Times of the Year (5 part) } *Vaughan Williams* (14)
Love's a Sickness (4 part) .....
"The Dark-eyed Sailor" (4 part) .....
Just as the Tide was Flowing" (4 part) ..

11.0 Close down.

Announcer: H. Cecil Pearson.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

Made to fulfil your shaving ideals

Take a little—about half an inch—of Gibbs Shaving Cream on your wet brush. Note how it multiplies itself in rich billows of creamy, fragrant lather immediately it touches your skin. Now your razor. A few easy sweeps and your skin is left refreshed and as soft as silk. Delightful, isn't it?

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To the DEAF

THE HON. BETTY ON THE RIVER

[illegible]

WIRELESS.

[illegible]

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2'64

Plymouth Programme.

Week Beginning Sunday, July 20th.

SUNDAY, July 20th.

5.0–5.30, 8.30–10.30 } *Programmes S.B. from London.*

MONDAY, July 21st, to THURSDAY, July 24th, and SATURDAY, July 26th.

3.30–4.30 [illegible] Orchestra.
Musical Interval
5.30–6.30. CHILDREN'S CORNER
7 o'clock [illegible] from London

FRIDAY, July 25th.

2.30–4.30. Savoy Picture House Orchestra
Musical Interval
5.30–6.30. CHILDREN'S CORNER
7.0. NEWS and WEATHER FORECAST
S.B. from London
Dr. J. MACLEOD. *S.B. from London*
Local News.

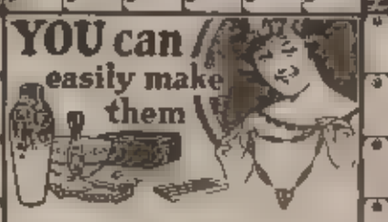
7.30. **Local Concert.**

MOLLIE SERGEEL (Soprano Pianoforte)
Rhapsody [illegible] *Dohnanyi*
Song [illegible] *Dancing Honey*
[illegible] 17
CHARLES McMAHON (Solo Violin)
[illegible] *Brandeis*
[illegible] *Ascher*
LESLIE AND ELEAR (Entertainers)
Musical Medley Coon
Eve Smith
[illegible] Quartettes *Bevan & Stone* 6
Musical [illegible]
WILFRED HOWARD (Baritone)
Musical Coon Song [illegible]
[illegible]
"The Enchanted Forest" *Montague Phillips*
Louis Serrel
Novelty [illegible]
[illegible] PANHAM (Bass)
Song [illegible]
"A Chip of the Old Block" *W. H. Squire*
[illegible] Musical
Recitation [illegible] *Fenner*
CONSTANCE CORNISH
[illegible]
Matilda at the Piano."
Musical Sketch
Novelty Sketch [illegible]
[illegible]
[illegible] invitation" *Shirley Goode*
[illegible] *R. A. Roberts* 7)
[illegible]
Waltz" [illegible] *Guy d'Hardelot*
The Drum Major" [illegible] *Ernest Vaughan*
Gertrude McMahon
[illegible]
[illegible]
[illegible]
Novelette [illegible]
[illegible]
[illegible] *Debussy*
Concert Study in F Minor [illegible] *Liszt*
9.0.—NEWS and WEATHER FORECAST
S.B. from London
[illegible]
[illegible]
9.30 [illegible]
[illegible]

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147

JOHN HENRY
WRITES EXCLUSIVELY
IN
"TIT-BITS"
EVERY WEEK.

YOU can easily make them



A Necklace to match every dress, that looks as good as one costing pounds all kinds of hatpins, too—decorative vases, boxes, and bowls, lampshades and beads can be made with a few sticks of Dennison's Wax.

Ask Your Stationer for
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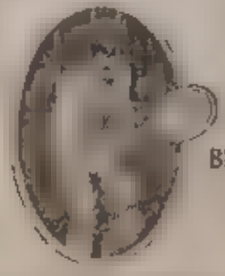
WAX
FREE Illustrated Booklet Sealing Wax Art sent post free. Write to
Dennison Manufacturing Co. Ltd
Dept. R., KINGSWAY, LONDON, W.C.2.

LAWN TENNIS



LEARN HOW TO PLAY BY THE BEAMISH WAY.

A. E. BEAMISH, [illegible]

J [illegible]

Y [illegible]

OUR PUPILS RANGE from NOVICES to COUNTY PLAYERS

[illegible] Miss E. RYAN, the WORLD FAMOUS PLAYER [illegible]

YOU CANNOT FAIL TO IMPROVE.
FILL IN AND POST THIS COUPON TO-DAY.

The Beamish Correspondence School of Lawn Tennis,
25/27, St. Stephen's House, Westminster, S.W.1

Please send me full details of your Original System of Lawn Tennis Training, also Illustrated Booklet and Special Introductory Lesson which guarantees instantaneous improvement in my game. It is understood that you will return my money in full if not entirely satisfied.

NAME .....

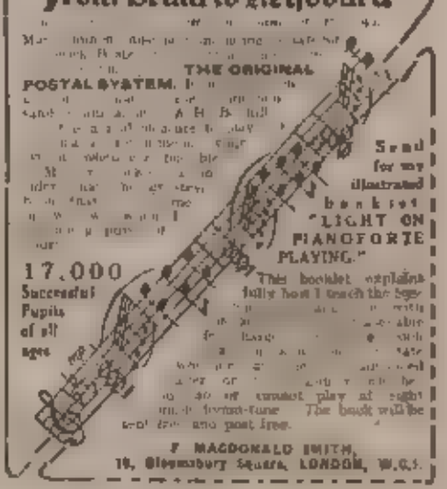
ADDRESS .....

If you do not like to cut the coupon, write for Mrs or Miss to The Beamish School of Lawn Tennis, 25/27, St. Stephen's House, Westminster, S.W.1

Break Away from the Old Senseless 'Practising'

DID you ever stop to think how hopelessly out of date is the old method of teaching the piano? Constant practising proved to be indispensable—but [illegible] Merely a short-sighted attempt to drudgerise the mind into insensibility, and to get the muscles to act automatically. By eliminating the old senseless "practising" which has ruined many a budding musician, the EASY SYSTEM—"From Brain to Keyboard"—which Mr. [illegible] describes as "the most striking discovery of the present generation for practical musicians," shows you how to turn pianoforte playing into a fascinating, easy study free from all the drudgery of old fashioned "practice."

From Brain to Keyboard



[illegible] THE ORIGINAL POSTAL SYSTEM. [illegible] A. H. B. Hill [illegible]

Send for my illustrated booklet "LIGHT ON PIANOFORTE PLAYING."

17,000 Successful Pupils of all ages

This booklet explains fully how I teach the beginner [illegible] to play at sight [illegible] to play from memory [illegible] to compose [illegible] to play at sight [illegible] to play from memory [illegible] to compose [illegible] to play at sight [illegible] to play from memory [illegible] to compose

Edison Bell Radio

DISTINCT AND DIFFERENT

Just what Wireless Ought to be!

Safety First.

A

AN INVALUABLE ACCESSORY.

PROTECTS Home and Set Against the Dangers of LIGHTNING— EDISON BELL AUTOMATIC EARTHING PLUG & LIGHTNING ARRESTER.

By simply withdrawing the Plug (A) your Aerial and Earth wire are automatically connected, and your Wireless Set can be taken away without having to disconnect any wires.

To connect up your Set all you have to do is to re-insert the Plug and your Set is ready for use.

This device is beautifully made of insulating material, the metal parts being in highly polished Nickel-plate; the contacts are of pure silver and will not corrode.

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A FEW RECENT NUMBERS.

4021	A Smile Will Go a Long Long Way (Fox-trot) / Gigolette (Fox-trot)	Blackpool Tower Orchestra.
4023	Turned Up (Military Two Step) / Hello, Hello, Hello (Military Two Step)	Conductor Mr. Arthur Davies.
4029	The Hurdy Gurdy Man (Fox-trot) / Do Shrimps Make Good Mothers (Fox-trot)	Hurlingham Club Orchestra Conductor Mr Bernard Filer.
4030	"Cara" (Five Step) / When Lights Are Low (Waltz)	
4027	It Ain't Goona Rain No Mo' (Fox-trot) / Oh You Little Sun-uv-er gun (Fox-trot)	Regent Orchestra.
4032	Riviera Rose (Waltz Song) / Ten Thousand Years From Now (Chorus Ballad)	Gerald Adams.

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embrace ALL the Biggest and Best Song Hits, Dances, and Instrumental Numbers, whether Broadcast or Otherwise. That Delightful Selection you heard on Wireless the other Evening is on Winners. ASK your Dealer for Catalogue of 2,000 Titles.

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(Opposite London Hippodrome).

where Full Stocks of Gramophones, Records and Wireless Products are on Sale.

2/6

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J. E. HOUGH, Ltd., EDISON BELL Works, Glengall Road, S.E. 15, & at Huntingdon.

Sheffield Programme.

Week Beginning Sunday, July 20th.

SUNDAY, July 20th.

3.0–5.30 } *Programmes S.B. from London.*
8.30–10.30 }

MONDAY, July 21st, and WEDNESDAY, July 23rd.

3.30–4.30. *Programme S.B. from Manchester*
5.30–6.30. CHILDREN'S CORNER
7.0–onwards. *Programme S.B. from London*

TUESDAY, July 22nd, and THURSDAY, July 24th

3.30–4.30.—*Programme S.B. from Birmingham*
5.30–6.30. CHILDREN'S CORNER
7.0 onwards.—*Programme S.B. from London*

FRIDAY, July 25th.

3.30–4.30. *Programme S.B. from Manchester*
5.30–6.30. CHILDREN'S CORNER
7.0 NEWS and WEATHER FORECAST
S.B. from London
Dr. L. M. PARSONS. *S.B. from London*
Local News

8.0. **Local Concert.**

THE STATION QUINTETTE

Overture. The Arcadians ..... *Monckton*
"Two Spanish Dances ..... *Moszkowski*
BERNARD MAYFIELD (Baritone)
"The Sea" ..... *Coleridge Taylor* (1)
"Ships Passing" ..... *A. L.* (1)
"The Open Highway" ..... *Drummond*
Quintette
"Suite Bergamasque" ..... *Poppy*
HELEN TALBOT (Soprano),
"I Know a Bank" ..... *Martin Shaw*
Baboon ob Jeerson"
Didn't It Rain?" ..... *Burleigh*
W. TOMLINSON (Clarinet) and IVY SMITH Pianoforte
Duet, Adagio and Allegro from Duo Concertante, Op. 47 ..... *Weber*
Quintette
"Sweet ..... *Hilton*
Mother o ..... *Hyde*
Bernard Mayfield
Devon, O Devon ..... *Stanford* (1)
Warwickshire Wooing ..... *Somers*
The Song of the Clock ..... *Burchell* (1)
Trio for Pianoforte, Viola and Clarinet
Andante
Minuet and Trio ..... *Mozart*
Quintette
Selection "Mignon" ..... *Thomas, arr. Turon*
Capriccietto ..... *Berry*
Helen Talbot
Songs "Mary Morison" "Jungle Melody" ..... *Franck*
Intermezzo ..... *Vaughan Williams* (2)
Songs of Araby ..... *E. del Acqua*
W. Tomlinson.
Clarinet Solo, Scherzo ..... *Saenger*
Quintette
Selection "A Fair Dream" ..... *Kerna*
Romance for Flute ..... *Peter Ilyitch*
Trio for Pianoforte, Viola and Clarinet
Allegretto ..... *Mozart*
Quintette
"Babillage" ..... *Gillet*
"Vivienne" ..... *Finck*
A Day in Naples ..... *Byng*

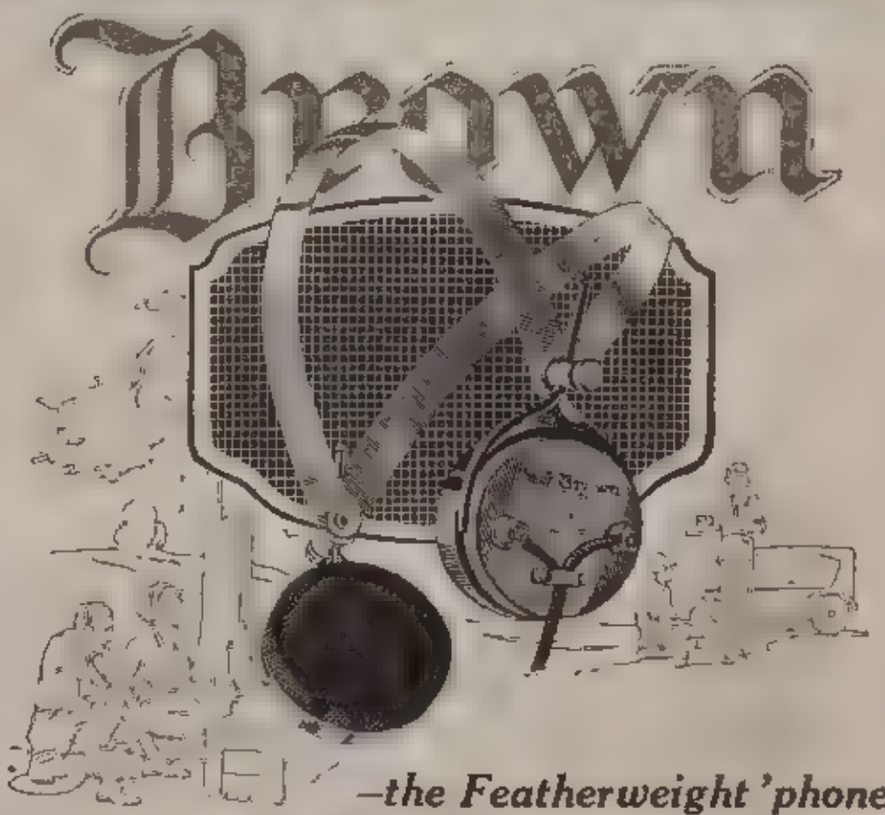
10.0 NEWS and WEATHER FORECAST
S.B. from London
Topical Talk
Local News.

10.30. Close down.

SATURDAY, July 26th.

3.30–4.30. *Programme S.B. from Birmingham.*
5.30–6.30. CHILDREN'S CORNER
7.0 NEWS and WEATHER FORECAST
S.B. from London
Mr. C. J. ALLEN *S.B. from London*
Local News
7.30.—Weekly Sports Chat by "Observer."
8.0–12.0. *Programmes S.B. from London.*
Announcer: H. C. Hedgcock.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 167



—the Featherweight 'phone for outdoor use.

Brown Featherweight Headphones (type F) are just the 'phones for outdoor use in summertime where light weight and comfortable fitting are all-important.

Their robust construction and efficient design have combined to make them the companion of every Radio enthusiast using his Receiving Set whilst holiday-making. No one need use unsightly and heavy headphones when for so little as 25/- a pair of high-resistance Brown Featherweight 'Phones can be bought.

Ladies and children like them because their headbands are wide and adjustable in a second. They do not disarrange the hair, and so light are they that the wearer is often unconscious of their existence (the total weight including cords is but 6 ounces)

Remember that in spite of their low price (attainable only because of the huge quantity manufactured every week), there is nothing cheap about them. They are made under typical Brown supervision from the finest material. Each earcap, for instance, is shaped to fit the ear and highly polished. Buy one or two pairs now for summer use—they will be much appreciated by visitors, whether you are taking your Radio Set with you on holiday or not.

Price
120 ohms **22/6**
4,000 ohms **25/-**
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25/- PURITY of TONE

Good head-receivers are essential to full appreciation of the broadcast programme. They must be sensitive, reasonably light in weight and yet strong, comfortable to wear, and the quality of reproduction must be beyond reproach.

All these important points are provided for in Western Electric Headphones, which are manufactured by the makers of over half the world's telephones.

The new pad fixed at the top of the headband provides just that added degree of comfort to the wearer, that the women-folk so greatly appreciate.

Don't spoil your enjoyment by using inefficient phones, get Western Electric's and be satisfied

Price complete with cord, and headpad. - - £1 5 0

Western Electric Company Limited.

CONNAUGHT HOUSE, ALDWYCH, W.C.2

Telephone CENTRAL 7345 (6 lines)

Branches: BIRMINGHAM, LEEDS, GLASGOW, NEWCASTLE, CARDIFF, MANCHESTER, SOUTHAMPTON, LIVERPOOL and DUBLIN.

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10 FOR 6D.

20 FOR 11½D.

THERE'S a line that divides hemispheres and a line that divides PLAYER'S from other cigarettes. If you [illegible] PLAYER'S [illegible] are few and far between. [illegible] That's why to the PLAYER'S smoker [illegible] the pleasure of an [illegible] and the [illegible] of keeping up a supply of PLAYER'S always available.

PLAYER'S
NAVY CUT
Cigarettes

PLAYER'S NAVY CUT TOBACCO has been an unfailing [illegible] to generations of pipe smokers. P 1066

Hazel

29/6

Prevention is better than cure

Many foot ailments arise from hard and inflexible shoes, the insoles of which are uncomfortable to the feet. "Hazel" Luxury shoes, with All-Wool Felt Insoles are easy the first time on and remain so, they prevent foot troubles.

Wear "Hazel" Luxury Shoes and avoid foot troubles

Also made in several patterns for Ladies.

CRICK & CO.

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Estab. [illegible]

LONDON RETAIL BRANCHES:

188, High Holborn, W.C.1 (near Gray's Inn Road).

18, Broad Street Place, E.C.2 (near Liverpool Street Station).

20, Queen Victoria Street, E.C.4 (near Bank of England and Mansion House).

45-46, Chancery Lane, W.C.1 (near Tube Station).

198, Shaftesbury Avenue, W.C.2 (near Princes Theatre).

49, St. John's Road, Clapham Junction, S.W.11.

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If unable to obtain locally send 30s. and name of your dealer, stating size and fitting usually worn, to CRICK & CO., "HAZELWOOD," NORTHAMPTON and shoes will be sent through him or our nearest Agent, POST FREE. Write also for Descriptive Booklet of other "Hazel" styles for Ladies and Men, POST FREE

Leeds—Bradford Programme.

Week Beginning Sunday, July 20th.

SUNDAY, July 20th.

3.0-5.30. } *Programmes B.B. from London.*
8.30-10.30. }

MONDAY, July 21st, to THURSDAY, July 24th, and SATURDAY, July 26th

5.0-6.0. CHILDREN'S CORNER.
7.0 onwards. *Programme S.B. from London.*

FRIDAY, July 25th.

5.0-6.0. CHILDREN'S CORNER.
7.0. NEWS and WEATHER FORECAST
S.B. from London.
By L. M. PARSONS. *S.B. from London.*
Local News.

Local Programme.

BERTHA ARMSTRONG (Soprano).
NELLIE SPEIGHT (Contralto).
WILFRED HUDSON (Solo Violin).
PERCY FROSTICK (Solo Violoncello).
CHARLES PEARSON (Humorist).

8.0. Trio
"O Memory" ... *Henry Leslie* (15.
8.5. Charles Pearson
Humorous Interlude ... *Topical Songs*
Weston (13
8.15. Bertha Armstrong.
Where'er the Snowflake Leaves the Sky
Liza Lehmann
8.25. Wilfred Hudson
Passing By" ... *Purcell*
Drink to Me Only With Thine Eyes
... *Quilter*
8.35. Percy Frostick
Songs My Mother Taught Me
Antonin Dvorak
" Serenade Espagnole
Joseph Wieniawski 6
Zapateado ... *Sarasate*
8.45. Nellie Speight
" The May Night " ... *Johannes Brahms*
8.55. Bertha Armstrong and Wilfred Hudson.
Duet. " Dear Love of Mine "
Verney Thomas (12
9.0. Charles Pearson
Humorous Interlude "The Undertaker"
Serial Pictures ... *Kerby* 25
9.10. Bertha Armstrong.
" One Fine Day " (" Madame Butterfly ")
Puccini
9.20. Percy Frostick.
... *Borsky & Godard*
Slumber Song from Jocelyn ... *Godard*
9.30. Wilfred Hudson.
" Where'er You Walk " ... *Handel*
My Dreams ... *Trad.*
9.40. Charles Pearson
Humorous Song, " I Might Marry You "
Weston and Lee (7)
9.50. Nellie Speight
Absent " ... *F. W. Metcalfe* (1)
Harlequin " ... *Wilfred Sanderson* (1)
10.0. NEWS and WEATHER FORECAST
S.B. from London.
Time Signals.
Local News.
10.30. Close Down.

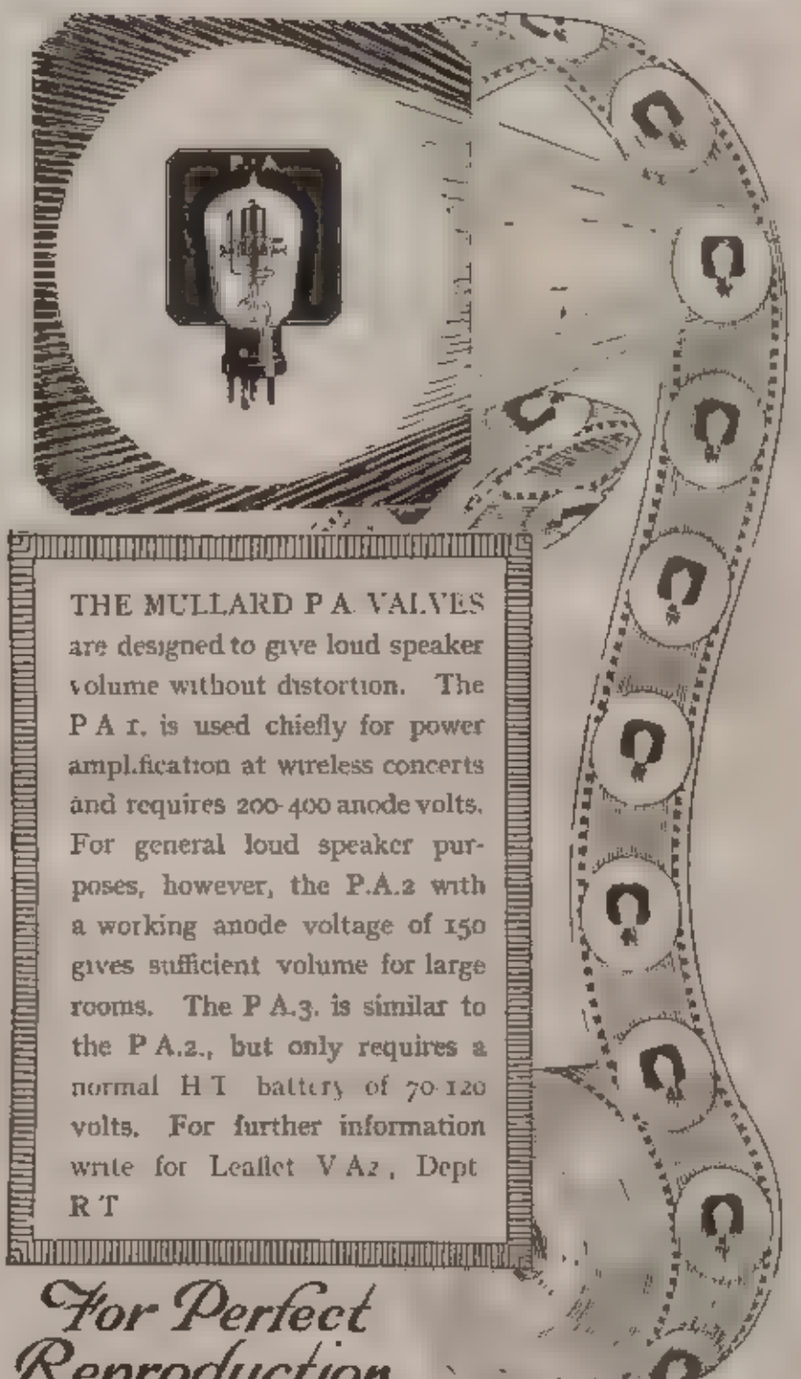
Announcer: C. P. Foss.

A number against a musical item indicates the name of its publisher. A key list of publishers will be found on page 147.

ALTERATIONS TO PROGRAMMES, Etc.

AS THE RADIO TIMES goes to press many days in advance of the date of publication, it sometimes happens that the B.B.C. finds it necessary to make alterations or additions to programmes, etc., after THE RADIO TIMES has finally gone to press.

A Valve for Every Wireless Circuit



THE MULLARD P.A. VALVES are designed to give loud speaker volume without distortion. The P.A.1. is used chiefly for power amplification at wireless concerts and requires 200-400 anode volts. For general loud speaker purposes, however, the P.A.2 with a working anode voltage of 150 gives sufficient volume for large rooms. The P.A.3. is similar to the P.A.2., but only requires a normal H.T. battery of 70-120 volts. For further information write for Leaflet V.A.2., Dept. R.T.

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THE · MASTER · VALVE

Advertisement of The Mullard Radio Valve Co., Ltd. (R.T.), Nightingale Works, Nightingale Lane, Balham, S.W.12.

BRITISH EMPIRE EXHIBITION, PALACE OF ENGINEERING—AVENUE 14—BAY 13. (161)

They were used in the cockpits of the R.A.F.

—read what a user says to-day

IN 1909 the British Admiralty adopted Ericsson British Telephones as *standard* just because of their wonderful sensitivity and robustness. This lead was followed by the Air Board in 1917. Through scientific research and experiment we have so immensely improved them that to-day they stand alone as "The World's proved best 'phones."

Read the accompanying letter just received from a pair of Ericsson (British) Telephones and you will without hesitating agree as to what are the best phones to-day.

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Please forward me a pair of your British Ericsson 4,000 ohms phones as advertised in Radio Times at 26/6 which I find are. They have been recommended to me by a friend who has used a pair for years.

I asked another friend the other week which were the best phones. Without hesitating he answered, "Ericsson." This shows how well known your phones are.

I remain,

Yours sincerely,

F G

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2,000	25/6
4,000	26/6

Buy right on seeing "Ericsson, Beeston, Notts," on each receiver to avoid "experimental" imitations.

Write us to-day for our agents for full particulars and the information gladly given of our famous valve and crystal sets, loud speakers and component parts.

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Waterman's Ideal Fountain Pen

makes outdoor writing easy

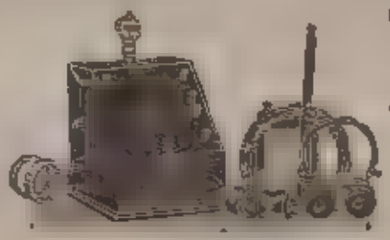
Enjoy every available moment of your time in the open air. Letter writing need not be done in stuffy rooms. With Waterman's Ideal Pen and Waterman's Ideal INK you can do *all* your writing out of doors.

Buy Waterman's Ideal to-day and it will be your faithful companion for life.

Three Types — Regular, Lever Filling, Safety — from 12/6 upwards. Sold by all Stationers and Jewellers. Presentation Pens in case from 17/6. Call or write for Booklet.

L. G. Sloan, Ltd., The Pen Corner, Kingsway, LONDON, W.C.2.

If visiting Wembley call at our Stand No. 32, Canadian Pavilion. A most interesting exhibit



The "Wootophone" Little Wonder

ONE VALVE SET.

Complete as illustrated with coils for B.B.C. wave lengths

Price £10 - 0 - 0.

—A highly efficient receiver for all wave lengths—

Send P.C. for fully illustrated Catalogue

F. E. WOOTTEN, Ltd., Wireless Manufacturers, 14, HIGH ST. OXFORD

ESTAB. 1765

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TESTED BY CERTIFIED REFRACTIONISTS

The best quality and style of eyewear supplied at strictly competitive prices.

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Sight-testing Experts

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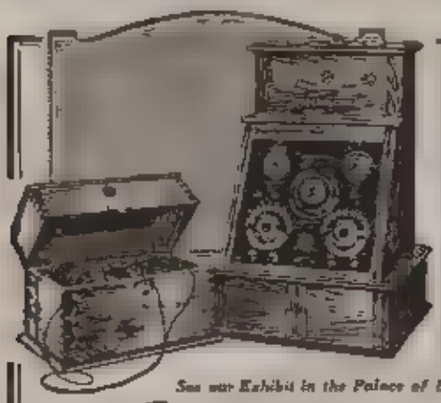

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3-Valve . £26
2-Valve . £22

The "BENBOW"

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Price complete £3 10 0

See our Exhibit in the Palace of Engineering, at Wembley.

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The "Nelson" "Efescaphone" 3-valve set enables you not only to listen-in to all British Broadcasting Stations, but also, owing to its wide wave length range, covering 150, 4,000 metres, to pick up Continental stations. The Nelson 3-valve set illustrated will receive all stations in Great Britain, in addition to Continental stations, on headphones and will work up to 70 miles with a loud speaker. The 2-valve set has a range of at least 150 miles with headphones.

"Efescaphone" sets are perfectly simple to instal and operate, splendidly constructed in every detail, and beautifully finished. The "Nelson" model Efescaphone is contained in a French polished walnut cabinet with a roll front which can be closed down when the instrument is not in use.

Write for Price List P.930, containing full details of this and other models of

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Wireless Weekly

6d every wednesday

This Week's Special Articles:

Another big issue of "Wireless Weekly" is now on sale. Pursuant to our policy of augmenting the work of our own Editorial Staff by contributions from the best known Radio Engineers, we are publishing one entitled:

How to get Loud Signals.

By CAPT ROUND

This article by the designer of the famous Microphone at 2LO embodies many practical suggestions which cannot fail to be of the utmost value. The Author's work is well known and may be accepted as the last word on developments in Wireless Reception.

Key Chart to Continental Broadcasting.

The result of much labour in tracking down Continental transmissions. By its aid it will be possible to know exactly which Stations are actually broadcasting at the moment, the times of their transmissions and their wave lengths. Much of this data is entirely new. If you want to listen to Spain, Italy or France, for instance, this Chart will be invaluable to you. Buy this issue to-day before it is sold out.

What has "Wireless Weekly" to say about it?

Order Your Copy.

Published by RADIO PRESS, Ltd. Devereux Court, Strand.

Commence reading it this week!

Important Notice.

MESSRS. HODDER & STOUGHTON have pleasure in announcing that this Autumn they will publish the FIRST VOLUMES in

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General Editor: J. C. W. REITH.

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¶ From the outset The British Broadcasting Company made it understood that, if the responsibilities committed to them were to be duly discharged, the operations of their services would by no means be confined to the transmission of entertainment in the ordinary sense of the term. They have shown a high conception of the influence and educational possibilities of Broadcasting.

¶ Accordingly they have secured the active interest and co-operation of many of the most eminent men and women, leaders in thought and action, and experts in educational matters generally. Their status in this field has been recognised officially by the Board of Education and other Government Departments. Already it is estimated that the audience which attends on Broadcasting is between four and five millions in the British Isles alone.

¶ It is already clear that Broadcasting is to be the recognised and pre-eminent medium for communicating to the people of all countries the advance of knowledge, and for the dissemination of information in all branches of human endeavour and achievement, and for the recounting of progress in the eternal struggle in the search for Truth.

¶ THE BROADCAST LIBRARY will consist of volumes at popular prices, dealing with these various subjects and written by men and women whose names are not only well known but who have spoken to millions on their own special subjects.

¶ Because of the proved genius of the Editor and the acknowledged high reputation of the authors we are confident THE BROADCAST LIBRARY will at once commend itself to a very wide public.

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"I'm so glad you used the 'Kaleeco' System of Electric Wiring"

— "It's so neat and unobtrusive. No damage to my walls or ceilings, no fuss or bother. In fact I can scarcely see where you have been."

Thus says the lady of the house before the Kaleeco wireman takes his departure.

The 'Kaleeco' Wiring System has been specially designed for quick and easy installation. In Houses, Bungalows, Schools, Churches, etc., of ancient and modern design the results have been entirely satisfactory.

Ask your local Electrical Contractor for full particulars or drop us a line.

Kaleeco WIRING SYSTEM

CALLENDER'S CABLE & CONSTRUCTION Co., Ltd., Hamilton House, Victoria Embankment, London, E.C.4. Tel. No. Central 4983.

A QUARTETTE OF RADIO RAGES.

"RIVIERA ROSE"

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All Played and Broadcasted by the Savoy Orpheans and Savoy Havana, from the Savoy Hotel

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THE NEW GREAT NATURAL REMEDY for Rheumatism, Gout, Rheumatoid Arthritis, Neuritis, Sciatica, General Loss of Vitality, etc.

A Radium Spa at Home.

WEMBLEY Main Avenue, Kiosk No. 39.

SPARKLETS LTD

The Spinet House Masterpiece.

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EXTRA SIZE CIGARETTES

"For Size and Tone, They Stand Alone."

10 for 6d. 20 for 1/-

Also 50's

"MEMORIES OF DALY'S THEATRE"

IN PICTURES AND STORY WITH A COLLECTION OF SONGS FROM PAST SUCCESSES. ALSO FIVE COPYRIGHT NUMBERS IN

MUSIC FOR ALL

No. 22. NOW ON SALE. 1/-

DO IT OR RUE IT!—

For the last six months or more you have [illegible] with unabated [illegible] music broadcasted from 2LO and its brother stations. You are [illegible] with the results you are getting. . . .

While you are scanning the pages of [illegible] have noticed [illegible] advertisement about [illegible] and soldering. Say you've [illegible] "I'm not interested—I'm getting just as good results as anyone else." That's where you err. In the first instance [illegible] and secondly (now remember this) [illegible] wiring, and the use of [illegible] wiring plus the cleanliness and tightness of [illegible] set. If you have [illegible] a friend who has soldered his, and for your sake we [illegible] But remember, it's FLUXITE that has made [illegible]

ASK YOUR IRONMONGER OR HARDWARE DEALER TO SHOW YOU THE NEAT LITTLE

FLUXITE SOLDERING SET.

PRICE 7/6

It is perfectly simple to use, and will last for years in constant use. It contains a special small space Soldering Iron, with [illegible] metal handle, a Pocket Knife, a [illegible] Solder etc., and full instructions. Price 7/6. Write to us should you be unable to obtain it.

FLUXITE

SIMPLIFIES SOLDERING

All [illegible] and [illegible] are sold [illegible] 8d., 1/4, and 2/8,

Buy a tin to-day.

FLUXITE LTD., 329, Bevington Street, Bermondsey, England.

ANOTHER USE FOR FLUXITE
HARDENING TOOLS & CASE HARDENING
ASK FOR LEAFLET ON IMPROVED METHODS

Cinema Goers!

YOUR FAVOURITE FILM STARS MAY WIN YOU

£1,500

ORDER A COPY OF THE CINEMA ARTISTES ALBUM CONTAINING

[illegible]

OF POPULAR CINEMA ARTISTES

PRICE 2/6

FULL VALUE CONTAINING FREE ENTRY FOR

First Prize — £1,500
Second Prize — £150
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300 PRIZES VALUE £1 EACH

Every lover of the films should possess a copy of this album and enter the interesting simple and FREE COMPETITION for the above prizes

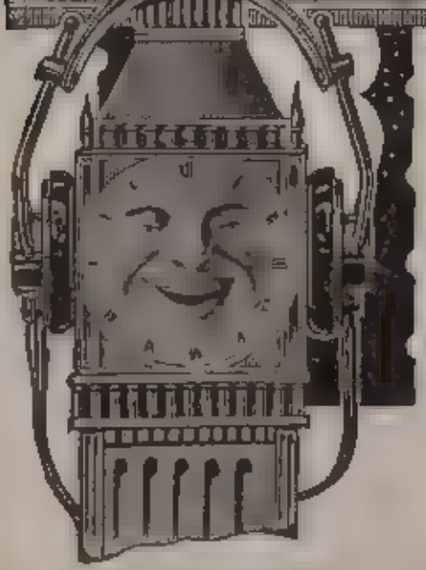
Send this coupon with P.O. for 2/6

The HOWCO PUBLISHING CO. LTD.
Howco House, Southwark St., London S.E.1

To THE HOWCO PUBLISHING Co. Ltd. HOWCO HOUSE, SOUTHWARK ST., LONDON, S.E.1
Please send me a copy of The CINEMA ARTISTES ALBUM for which I enclose P.O. value 2/6
Name
Address

Please write in CAPITAL LETTERS

If Big Ben could hear his chimes!



IF Big Ben could hear his chimes reproduced by the new General Radiophones he would indeed be a proud timepiece.

General Radiophones are different. Their ready response to signal intensity of '0000000011 of an ampere is an achievement which places them far above all competitors for efficiency.

A new method of matching the earpieces by means of specially invented visual gauges, and the incorporation of a carefully designed sound box, ensures singular clarity and natural reproduction.

General Radiophones are unrivalled for strength and finish, and they weigh only 7 ozs.

Ask your dealer to demonstrate General Radiophones to you. If you have any difficulty in obtaining, write direct to us, giving your dealer's name and address. Write for leaflet of G.R.C. goods in Dept. R.

20/- Per Pair.

GENERAL RADIOPHONES

Every Pair Fully Guaranteed.

GENERAL RADIO COMPANY, LIMITED,
Radio House, 255, Regent St., London, W.1.
Telephone, Mayfair 7132. *Telegrams*: "Algerard, London."
Branches in all principal towns in Great Britain and in principal countries overseas.

It filters the sound. Sparta

As surely as a liquid is freed from impurities in the Laboratory, so does the "Sparta" *filter* sound, rendering every note as pure and true as the original. Inside the base of type "B" there is an ingenious arrangement of [illegible] which [illegible] unpolluted away all traces of harsh results and a remarkably rich natural tone.

TYPE 'A' [illegible]
Price
£4 : 15 : 0

TYPE 'B' [illegible]
Price
£5 : 15 : 0

Ask your [illegible]

Write today for List 315A fully describing the complete "Fuller" range

FULLER'S UNITED ELECTRIC WKS., Ltd.,
Chadwell Heath, Essex.

NORWAY
FOR
Summer Holidays

amidst glorious Fjords, Lakes, Valleys, Waterfalls and Mountain Ranges.

INDEPENDENT INCLUSIVE TOURS

arranged to suit all requirements, with departures from England four times weekly. Pleasure Cruises to the Fjords of Western Norway.

Inclusive Tours are in England and Scotland.

Descriptive Booklets free from Dept. B.

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The Pioneers of Norwegian Travel
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DRINK!

MANY people who are careful about FOOD are [illegible] in the use of alcoholic [illegible] are never [illegible] careless in regard to DRINK.

They [illegible] that IMPURE WATER often [illegible] the system an [illegible] amount of Mineral Matter [illegible] which impairs the Digestion [illegible] the same [illegible] Gout Rheumatism, Kidney Troubles.

Typhoid Fever [illegible] Cholera and other [illegible] are diseases [illegible] by drinking impure water which [illegible] the germs of disease.

Water performs a great and [illegible] in the human economy but [illegible] RE Water

The GEM Pure Water Still

removes all impurities [illegible] water [illegible] germs, etc., and [illegible] RE WATER sparkling and [illegible] that takes no impurities into [illegible] many years. [illegible]

Recommended by *The Lancet* and used by H.M. Government

THE GEM SUPPLIES CO., Ltd. (Desk R.T.),
67, SOUTHWARK STREET LONDON, S.E.1.

N. Thierry Ltd
EST 1839

109, Regent St., W.1, & 48, Gresham St., E.C.2.
also
3, St. Ann's Square, Manchester

[illegible] 39/6

Light Walking Shoes for Gentlemen.

1307 Patent calf [illegible] 35/-
[illegible] Tan willow

[illegible] 35

Please cross Cheques and P.O.s "Bank of England."

YEAST IS LIFE!

IRVING'S YEAST-VITE TABLETS

THE [illegible] PICK-ME-UP [illegible] on [illegible]

[illegible]

[illegible]

When [illegible] are removed [illegible] Tonic Tablets [illegible] and within a few minutes

IRVING'S YEAST-VITE Tablets will relieve

[illegible]

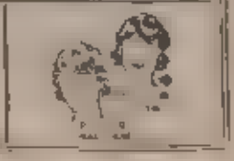
OUR GUARANTEE. [illegible]

£100 [illegible]

[illegible] never [illegible] letters [illegible]

[illegible]

Irving's Yeast-Vite Laboratories, 28 Red Lion Street, Clerkenwell, London, E.C.1



Three Outstanding Achievements

THE PORTABLE-FIVE.

The only Portable Receiving Set in leather suit-case requiring **no Aerial** and **no Earth.** It is **entirely self-contained,** including valves, batteries, invisible loop aerial and Loud Speaker. Really good reception on the **Loud Speaker** at **25 miles** or on **Headphones** at **500 miles.**

THE SUPER-FIVE.

A Five-valve Cabinet Receiver for use with either Dull or Bright emitter valves. Owing to its many **special** and **exclusive** features, really good **Loud Speaker** reception may be easily obtained at **500 miles** under normal conditions. Under reasonably favourable circumstances good **Loud Speaker** reception at **3,000 miles** has been frequently obtained by private users.

THE "DELSIA"-THREE.

THREE-VALVE SET. DULL EMITTER—LOUD SPEAKER—INDOOR AERIAL. **Loud Speaker Signals: Indoor Aerial—up to 10 miles. Outdoor Aerial—up to 50 miles. Utmost simplicity** in working—only **three adjustments. Recharge battery** only **once every 100 hours.** New resistance capacity, amplification and absolute purity of tone.

Write for special illustrated catalogues describing these, and ask for Trade Terms.

TINGEY WIRELESS LTD.

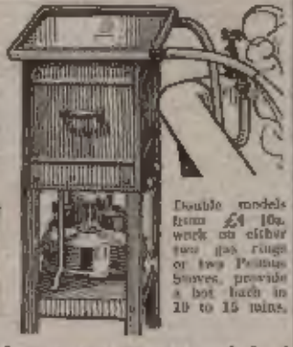
Offices & Showrooms (Open 8 to 7) Saturdays 8 to 1)—
92, Queen Street, Hammersmith, London, W.6.
"Phone" Hammersmith 1214. "Grams" "Simplidyn, London."
FEW AGENCIES STILL OPEN.

BOYLE'S PATENT WATER HEATERS

provide ALL HOT WATER for bath or sink WITH OR WITHOUT GAS

Single models, from **45/-** work on special gas ring (which can be run from the bathroom lighting) or, if no gas, will work on Primus Stove, provide a hot bath in 20 to 25 minutes.

All models are provided with rubber tube and union which can be connected to any water tap.



They are portable and can be used over the sink all day, and transferred to the bathroom when required.

Call and see demonstrations or write for catalogue.

Double models from £4 10s. work on either two gas rings or two Primus Stoves, provide a hot bath in 10 to 15 mins.

The safest and most economic means of providing hot water ever invented.

C. BOYLE & CO.,
Patentees & Manufacturers, 17, Lisle Street, Leicester Square, W.C. *Regent 4184.*

Cossor

Voyages of Discovery

TO the new user of a Cossor P.2 Valve (designed specially for long distance reception) every occasion gives an opportunity for discovering new Stations.

While previously the Receiving Set was probably limited to two or three hundred miles, now practically every Continental high-power Broadcasting Station is brought within its range. You have only to insert a Cossor P.2 into the high frequency socket of your Set to appreciate the wonderful difference such a Valve will make and how it will add vastly to your enjoyment of Radio.

Manufactured in two types:

P.1. (For Detector and L.F. use)	**12/6**
P.2. (With Red Top) for H.F. and	**12/6**

Why this marked superiority? The reason lies in the actual design of the Cossor Valve so different to all others.

Every Valve user knows that amplification and rectification is dependent upon the efficient use of the electron stream given off by the heated filament. These electrons shoot off at a tremendous velocity at all angles. In a Valve with a tubular Anode and long, straight filament, a large proportion of the stream escapes from the ends of the tube only to be wasted against the sides of the glass.

Remember that the only electrons that are used are those which reach either the Grid or the Anode. In the Cossor this means *practically all of them*, because its filament, arched like a bridge, is almost totally enclosed by the hood-shaped Grid and Anode.

This, then, is but a brief explanation as to why the P.2. Valve has achieved such remarkable results in high frequency amplification—easily the most exacting branch of Radio.

Cossor Valves

Advertisement of A. C. Cossor, Ltd., Highbury Grove, N.5. *Gilbert Ad. 1094.*

DO YOU PERSPIRE?

—When you dance or play games and feel uncomfortable and self-conscious because of the inevitable results?

You can save yourself all this discomfort and ensure yourself of comfortable bodily freshness by regularly using Poudre de Sante, now sold under the trade name "MARSANTA." It is a fragrant, hygienic toilet powder specially prepared for daily use, which corrects excessive perspiration, counteracts the discomfort and inconvenience caused by even a normal action of the skin, and acts as an instant permanent deodorant.

Send 1/3 for Trial Box.
Other sizes 2/9 and 3/3

MARSHALL & CO.,
70a, BASINGHALL ST., LONDON, E.C.

THE "RADIECO" SIMPLEX RECEIVER

FOR THE NEW HIGH POWER STATION.

Two wave-length ranges.

Receives all the B.B.C. stations on the short wave range and

The Hague, on 1,000 metres.

The new station on 1,600 metres, and Paris Radiola on 1,780 metres.

Prices:

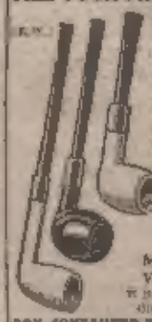
1 Valve Set, £5 17 6

2 Valve Set, £8 7 6

Catalogues Free.

RADIECO LIMITED, Stileman's Works, Wickford, Essex. 'Phone 5.

FILL YOUR PIPE RACK FOR 5/-



Every man enjoys a good smoke and although a good tobacco is necessary it is far more necessary to have a good pipe, and THIS IS JUST WHAT YOU WANT. Cool, Sweet, Smoke, & THE RADIO CLAY.

Manufactured from the finest Devonshire Clay, which, as it should, absorbs the moisture, and

MOUNTED WITH A VULCANITE STEM

it is the ideal pipe for the discriminating smoker.

BOX CONTAINING TEN ASSORTED RADIO CLAYS SENT POST FREE FOR 5/-.

Sample Box of 3 Radio Clay Pipes, Post Free, 1/9.

EDWARD POLLOCK, The Kirk St., Factory, Ancoats, MANCHESTER.

If each Crystal cost five shillings

THE SUPER CRYSTAL CYMOSITE IN SEALED BOXES

IMMEDIATE VACANCIES for WIRELESS OPERATORS

The MARCONI Company have vacancies for a number of Wireless Operators. Applicants should be between the ages of 18 and 25 years and must possess a First Class P.M.G. Certificate; previous service at sea is not essential.

Application should be made in writing to
The Traffic Manager, Marconi House, Strand, London, W.C.2.

Meltis CHOCOLATES

2d. Chocolate Marshmallows

A very delicious Confection.

HOLIDAY CRUISES GLASGOW TO WEST HIGHLANDS AND ST. KILDA

If you have not yet fixed your Holidays, take a week's delightful sailing through Outer Hebridean Islands. EVERY TEN DAYS from Glasgow at 11 a.m. and Greenock at 4.30 p.m. by splendidly fitted Steamer "HEBRIDES." On Special dates, Cruise is extended to the Romantic and Lonely island of ST. KILDA. The Western Isles Cruise is also extended on special dates to wild and beautiful LOCH ROAG, West side of Lewis.

Full particulars, Tourist Programmes, &c., on application.
Telegraphic Address— JOHN M'CALLUM & Co., *Telephone*— "M'Callum, Glasgow." 57, Union Street, Glasgow. 1280 Central

S.B. TO ALL STATIONS

Post your soiled Suit or Costume to Dept. R., Bradburn & Co., Dyers and Cleaners (Estab. 1832), George Street, Newcastle-on-Tyne. You will have it back in 3 or 4 days, cleaned and pressed like new, for 6/6, return post paid. Send to Bradburns

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if you use your spare time wisely. Write to-day for free booklet, "Home Study," which describes Pitman's 80 Postal Courses, including: English, Accountancy, Banking, Secretarial Practice, Shorthand, Economics, Modern Languages, and subjects of general education.

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SURGICAL BOOT SPECIALISTS,
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CLIMAX RADIO

GET A GOOD EARTH

(24" long)

THE CLIMAX EARTH TUBE.

A heavy copper Earthtube, eliminating electric main disturbances and internal wiring to water pipe. The most convenient, short, straight and efficient earth circuit.

CLIMAX PATENTS, LTD., Phone: 182, Church Street, Kensington, W.8.

Simply perfect: perfectly simple.

ACME 22/6

The Acme No. 1 Crystal Set, offered at 22/6 (including B.B.C. Royalty), has been designed for the special use of the amateur who has no technical knowledge of Wireless but merely desires to get the best listening-in results at the minimum of expense and without loss of time.

It consists of a neat polished mahogany cabinet, enclosing all parts except terminals and the variometer knob. All metal parts nickel-plated.

Its chief attractions are its wonderful clearness and its selectivity; it picks up, without interference or any distortion whatever, messages up to 40 miles.

Descriptive Catalogue of Acme Wireless Sets and Accessories sent gratis.

The ACME Production Co., Ltd., Smethwick, Birmingham.

MY FEET ACHE SO!

HOLLANDS Instep Support is the best CURE for TIRED and ACHING FEET. Light in weight and flexible. Gives vitality to the feet and makes walking a pleasure.

Prices from 3/6 pair.

Ask your Bootmaker at Chirosodist for Hollands, or write direct.

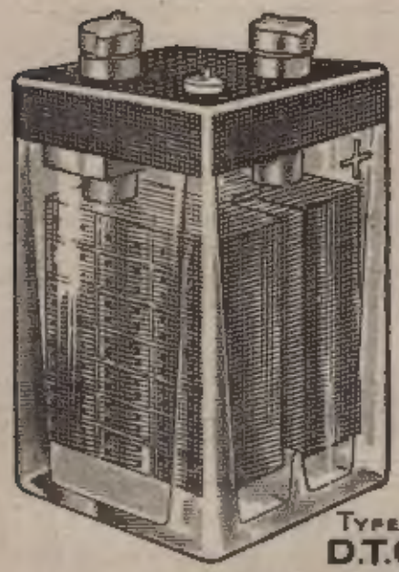
F. W. HOLLAND, 46, S. Audley St., W.1.

Printed by NEWNES & PEARSON PRINTING CO., LTD., Exmoor Street, Ladbroke Grove, W.10, and Published for the Proprietors by GEORGE NEWNES, LTD., 8-11, Southampton Street, Strand, London, W.C.2, England.—July 25th, 1924.

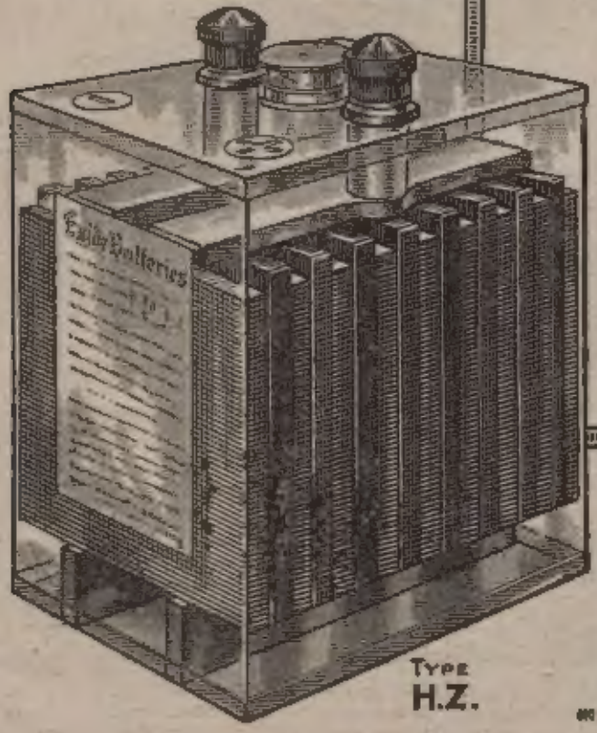
Exide

THE LONG-LIFE BATTERY

Use Chloride Batteries for HOUSE LIGHTING



TYPE D.T.G.



TYPE H.Z.

For Summer Use

Long, light nights, with the out-of-doors calling, mean less work for Radio Sets.

These are the batteries for Summer-time. Unless the whole charge is previously taken out they only need

RE-CHARGING EVERY 6 MONTHS.

Type D.T.G.	*Type H.Z.*
GLASS BOXES, HEAVY PLATE, 2 VOLTS.	CELLULOID BOXES, 2 VOLTS.
Capacity 20 ampere hours at slow intermittent discharges.	Capacities: 40 to 80 amp. hours.
Supplied dry and fully charged.	Suitable for Type "R" Dull Emitter Valves.
Suitable for .06 amp. Dull Emitter Valves.	PRICES from 17/6 to £1:4:6 each uncharged.
PRICE 5/- EACH.	

Obtainable from all dealers and Exide Service Agents.

THE Chloride ELECTRICAL STORAGE COMPANY LIMITED.

Clifton Junction, near Manchester;
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57-59, Dale End, Birmingham;
1, Bridge Street, Manchester.

LOOK FOR THIS SIGN.

600 Agents in Gt. Britain and Ireland.

The Voice of the Holidays

What a difference radio makes to the holidays! For with the Sterling 4-Valve Long Range Receiving Set and the Sterling "Audivox" Loud Speaker all the unending delights of broadcasting are added to the pleasures of the day. How welcome they are when it is fine and what a boon when it is wet! Let Sterling radio make your holiday a certain success.

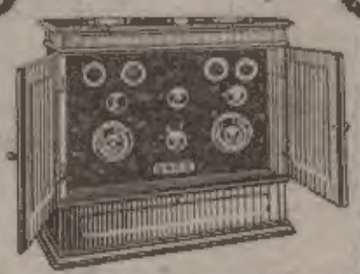
The Sterling "Audivox" Loud Speaker is supplied in two resistances—120 or 2,000 ohms—and in four finishes as follows:

In Black Enamel	£5 15 0
In Brown Floral design	£5 17 6
In Black and Gold Floral design	£6 0 0
In Black Matt finish with Oriental design	£9 9 0

Ask your dealer to demonstrate it

Visit the Sterling Exhibit—Palace of Engineering, Avenue 15, British Empire Exhibition

STERLING "AUDIVOX"



STERLING 4-VALVE RECEIVING SET

This long-range set gives sufficient volume for effective "Audivox" Loud Speaker operation at a considerable distance from transmitting stations. Adaptable for reception on all wave-lengths up to 3,000 metres. Complete with valves, headphones, H.T. and Grid batteries and tuned for British broadcast reception (290 to 510 metres) . . **£40:0:0**

Advt. of **STERLING TELEPHONE and ELECTRIC CO., LTD.,** *Manufacturers of Telephones and Radio Apparatus, etc.*
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